



1944

**CABLE**



nineteen forty-four

# CABLE



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**DANIEL HYMAN**  
e d i t o r i n c h i e f

**PAUL PISTRACK**  
b u s i n e s s m a n a g e r



Few members of the student body have been fortunate enough to meet and personally talk with our director. Nevertheless, Dr. Edwin Sharp Burdell's accomplishments have affected all of us. He is extremely interested in student activities and keeps in touch with these activities by means of his press conferences. These meetings serve to bring together the faculty and students for informal discussions of student problems. In these uncertain times, because of his learning and wide experience, Dr. Burdell's leadership is more valuable than ever before.

**EDWIN S. BURDELL**

**director**

16204



With the exception of his service in the first World War, George Frederick Bateman has worked continually in The Cooper Union. After graduation from the Day Engineering School in 1907, he became an instructor and eventually rose to his present position as Dean of the School of Engineering. His long experience in the school has made his service and helpful advice invaluable to the students.

**GEORGE F. BATEMAN**



Guy Gayler Clark, the Dean of the Art School, studied at Pratt Institute, winning two Cornell scholarships. He also won three consecutive annual scholarships at the New York School of Art. Dean Clark has brought to the students a practical view of the outside world, and his administration has been marked by the introduction of many new courses into the curriculum of the art schools.

**GUY GAYLER CLARK**

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## WE DEDICATE

Professor Peterson, an Associate Professor in the Department of Chemical Engineering, came to The Cooper Union in September, 1940, after a diversified career in industry. Since joining the faculty, he has continually shown an understanding and sympathetic interest in the problems and welfare of the students.

He is Faculty Advisor to the student chapters of the American Institute of Chemical Engineers and the Lambda Sigma Kappa fraternity. As Chairman of the Freshman Counseling Program and as Professor-in-Charge of the Green Engineering Camp, he has discharged his duties with full consideration of the students' needs. His most widespread influence, however, has been through his position as Chairman of the Faculty Committee on Student Relations, which determines the general policies under which all student extra-curricular activities are administered.

In recognition of his unstinting efforts in aiding and guiding the student body, the 1944 CABLE is respectfully dedicated to Professor J. Merriam Peterson.



# T R U S T E E S

Gano Dunn became a Trustee of The Cooper Union in 1924 and succeeded to the Presidency in 1935. An electrical engineer, he was graduated from the City College of New York in 1889 and Columbia in 1891. He is also the President of the J. G. White Engineering Corporation and a trustee of Barnard College, and has been the recipient of many honorary degrees and medals.

Elihu Root, Jr., a lawyer, obtained his first degree at Hamilton College in 1903. He was a Phi Beta Kappa man at Hamilton and received the degree of LL.D. at Harvard in 1906. Mr. Root became a Trustee in 1929. He is also a trustee of the Metropolitan Museum of Art and of Hamilton College. He is the son of a distinguished lawyer and statesman.

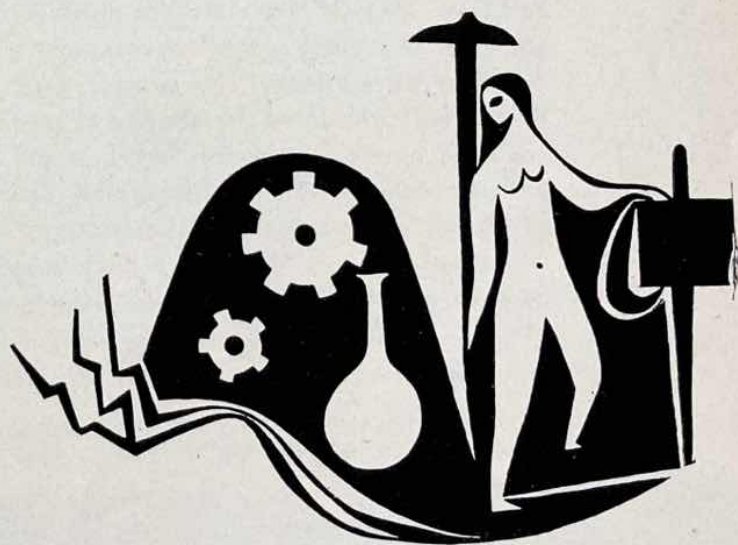
Walter S. Gifford became a Trustee in 1931. He is chief executive of the world's largest communication system, the American Telephone and Telegraph Company. A member of the American Institute of Electrical Engineers, he received his A.B. from Harvard in 1905. Mr. Gifford has also received many honorary degrees, including D.Sc. from Oberlin in 1929. He is also a trustee of Johns Hopkins University.

Barklie Henry was graduated cum laude from Harvard in 1924. He became a Trustee in 1935 at the age of 32. He is a director of the United States Trust Company of New York, Blue Ribbon Books, Inc., and Reynal and Hitchcock, Publishers. Mr. Henry is one of New York's most distinguished younger citizens and a leader in the field of hospital and welfare administration.

Irving S. Olds is the newest member of the Cooper Union Board of Trustees, having been elected to the vacancy caused by the death of J. P. Morgan. A lawyer, Mr. Olds was admitted to the bar in Pennsylvania in 1910. Our newest Trustee is a member of the Chamber of Commerce of New York and the United States Steel Corp. Finance Committee; and is also connected with the New York Institute for the Education of the Blind.

The operation of the office of the Secretary of The Cooper Union is supervised by Edward L. Rehm, the Secretary, and Miss Elizabeth J. Carbon, the Assistant Secretary. All the financial details pursuant to the operation of the school are handled by the Secretary's office. This office also is in charge of renting and generally supervising the use of the Great Hall. Mr. Rehm has long been associated with the school and is indeed familiar with the many functions of his office. He first came to The Cooper Union in 1899 and eventually became Assistant Secretary in 1918. After eight years in this capacity he was appointed Secretary in 1926. Miss Carbon became Assistant Secretary in 1943 after working in the office for several years.





C L A S S E S

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# P R E - E N G I N E E R I N G

Our class has the distinction of being the first one composed almost entirely of students who entered Cooper before they graduated from high school. We are also known for our high milk consumption and our low cumulatives. (Cumulative varies inversely as the milk consumption, we suppose!)

There were fifty of us and two per cent wore a dress—sometimes—or slacks, size unknown. We all joined the ranks of "Hollinger's Happy Hurdlers" and the only mishap was Harold Anderson's encounter with the Lavanburg Gym floor in which he came out second best. And then there were "Gruesome" Usim and "Domby" Dombrowski, "the daring young men on the flying trapeze who slipped to the floor with the greatest of ease" . . . eventually.

Our class ranges in size from Erwin "Rommel" Kleinfeld with his perpetual grin, to Edgar "Stretch" Schmidt. We also boast of the Evelyn Kern-Arnold (Royce) Kelly combine, still going strong after almost a year, and of Sig Kei (pronounce "K"), columnist extraordinary. Jonas and Hirsch, writers of "informative" articles, have successfully surmounted the obstacle of partial separation, while "J. Edgar" Schulman, chairman of the Fingerprint Squad, is still desperately searching for victims. After an epic struggle with the barber, Sol Zadoff one day came to school minus most of his hair and created quite a furor.

Class crooners Krohn and Kelly supply the close harmony in their inspiring shower-room duets, while the conversation of Cunha and Wargo is conspicuous by its absence. Our leading artist is, without doubt, Gareth Davidson, whose immense repertoire consists of caricatures of Roosevelt, Churchill, Roosevelt, Churchill,

DAY TECH. Top: H. Anderson, S. Krohn, K. Hillman, J. Van Dort, H. Hirsch, H. Cunha, W. Usim. Bottom: S. Zadoff, G. Dombroski, A. Kelly, E. Kern, G. Davidson, E. Kleinfeld, H. Muhlbauer.







DAY TECH. Top: N. Austern, L. Birenbaum, R. Eason, F. Minor, E. Norman, M. Berry, A. Katz, I. Kuhlik, C. Jones, H. Becker, S. Stromberg, N. Aster. Bottom: D. Ash, B. Eisenberg, M. Schwartz, R. Mellman, Z. Odes, M. Levine, P. Belous, M. Wities, H. Schwartzberg, A. Levine, F. Rom.

Roosevelt, Churchill and Stalin. Runner-up is Kurt Hillman (initials K. M. M. H.), whose noted fresco, "El Phillipo Rides Again," has appeared frequently on the blackboards. Class marital adviser is David Saletan whose enlightening term theme was entitled "Courtship and Marriage in the Eighteenth Century." Problems of the heart also occupy the spare time of Martin Lenning, whose name appears at least once in every Cooper Snooper.

All in all we have quite an aggregation of engineering hopefuls, who, despite numerous individual failings and serious obstacles both in school and outside, are working hard to become a credit to their school, their profession and their country.

The start of a confusing cycle of events began with the taking of exams in February. Naive ex-high-school seniors settled down to a grueling sixteen-week schedule. Before a month had passed, section four had lost one member, Werner, to the draft.

Then came the announcement of a shortened term. Themes that were originally due at the end of the term were allowed a month's grace. (They were handed in six weeks late.)

Busy as they were with themes, section four, using Stromberg as a lure, adopted Thelma Bergen and went on to sweep the frosh elections. Goldman and Rubin made reputations for themselves via their success with the Art School.

The year was a series of good and bad news. In the heat of the summer session it was learned that the school would be going to the Army, and the class would have to leave in February '44.

DAY TECH. Top: W. Schulman, A. Reiter, W. Uhl, M. Jonas, F. O'Driscoll, D. Saletan, R. Horky. Bottom: W. Shanahan, J. Schachter, J. Spector, W. Summers, M. Paszkewich, M. Lennig, E. Schmidt.







NIGHT TECH. Top: B. Bishop, W. Baker, G. Mancini, M. Renwick, A. Paul, S. Smith. Bottom: A. Frascella, R. Chapman, A. Bzik, W. Goddey, R. Schwartz, P. Wysoarko.

The Quarter 2'ers emitted squeals of delight as a reaction to the Dean's promise of "a glorious adventure." Little did they know that the most glorious feature of the geography class would be the completion of it.

The Art School having left for a summer vacation (lucky dogs!), the main diversion at lunch time became pitching pennies. The more fanatic took to bridge . . . playing until they were thrown out of the building at six. Welkowitz and Weinblatt beat the heat by taking a few "short ones" at McSorley's—usually during Physics Lab. Zang, in that same laboratory, had to produce ten dollars to replace the mercury blasted around the room by his original experiment.

With tests being flunked by nearly everyone, Austern was proving himself the class nemesis. When the students complained that the tests were too hard, the teachers would counter, "Austern got 90."

Everyone was getting his lumps in Hollinger's "Happy Hurdle and Swim in Your Own Sweat" gym class. After the other instructors finished working on the minds, the bodies were taken care of in that happy-go-lucky session. This was the first class to be made both mental and physical wrecks.

By the time another winter had rolled around, most of the original class had gone the way of all young men and the remnants became more haggard knowing what they had ahead of them.

NIGHT TECH. Top: Squzem, M. Schwartz, W. Broderick, G. Geisenhainer. Bottom: M. Heison, R. Strauss, E. Rosa, R. McNulty, A. Dawson, R. McCrystal.







# C H E M I C A L E N G I N E E R I N G

Since their formation last year, the Q-7 Chemical Engineers have been an aggregation that could easily be distinguished from all other groups. Although the group has been decimated through failure and by the draft, the uniqueness is still present.

As Sophomores, they could easily be identified by the way they murdered the "Fuehrer's German." Their password became "Guten Tag, Haben sie getun der doctors hauswork?"

From Quantitative Analysis, they developed a religious wardrobe. If you, perchance, met a person whose clothes were riddled with holes, he was either an artist or a Ch. E. who had fallen afoul of some cleaning solution. Incidentally, cleaning solution is heartily recommended by Q-7 as a sure-fire hair remover.

As Juniors, the group retained their uniqueness. From Organic Lab. they acquired odors varying from B. O. (n-valeric acid) to that of geraniums. Their hands were always covered with acid burns or the most colorful dyes.

The group, although small, has a record crop of characters whose antics have distinguished them throughout Cooper. There is Robert Sachere, more amorously called Sacha, who has distinguished himself by being the fellow who could ask enough questions to make a quiz kid cry "uncle." He also has to be evicted from the laboratories bodily after the final bell has rung. Sacha's famed statement, "Paper is cheap," has led many to believe that he has an interest in some paper company. Then there is Arty Ingberman, a swell guy, who has a way with flasks that make them fall apart when full of a precious organic yield and who is a profound believer in the doctrine, "Never use arithmetic where you can apply Calculus or Differential Equations." Mel Tierman is trying to learn Japanese by dyeing himself Martius Yellow. Arthur H. Klein, known by everyone as K-Square, has prematurely completed his

DAY SENIORS. K. Baczewski, H. Flegenheimer, L. Galanter, I. Goldman, A. Karp, H. Pecorini, G. Gudz, S. Levy. Bottom: H. Daneman, R. Corio, P. Pistrack, S. Schatz, P. Messina, M. Steinberg.





thesis by painting the Organic Lab with orange polka dots by vacuum distilling Orange II. All that was left of his yield was a vacuum. K-Square was the class practical joker and the life of the laboratory. Q-7 and Cooper have lost a great guy, since he has joined the army, but God pity his officers and buddies.

Kenny Petry was always where you could find him. That is at the O. D. P. Frat house when he should have been in the Organic Lab. Kenny is in the Navy now.

Henry S. Dombrowski is a hard working fellow who can always squeeze one more significant figure out of a measuring device than anyone else. He is a member of the Dombrowski and Goldin team. His main bid for recognition is the coinage of the phrase, "Take over, Jay," as another organic yield went up in a puff of smoke.

The team of Seltzer and Cohen although newly formed (since Ernie Rottman left for the army) have already become an efficient crew. The two specialize in burning midnight oil over "Beilstein's."

Squad II, composed of Seltzer, Goldin, Dombrowski, and Sachere, have started intensive research on how to speed the flow of electricity so that they can break their one hour speed record in finishing an electrical engineering experiment.

## DAY SENIORS

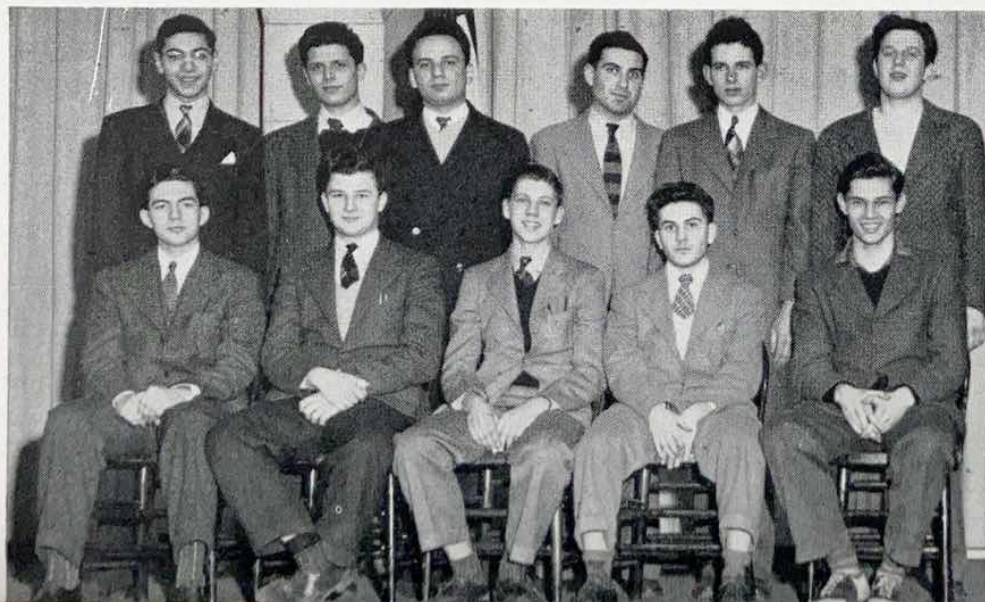
Last stop! All out! It's the end of the ride. We made it in record time by clipping the schedule to a hectic thirty months. Now we look back on the trip and wonder how we ever made it. Along the way our service flag has grown to a constellation rivalling the big dipper in its magnificence.

Those boys who left to serve our Uncle have left their mark, low as it may be, in the annals of The Cooper Union. There was "Jake" Pakula, who left his mark in two spots—one in Prof. Hope's heart and the other on the ceiling of the General Chem. Lab. With him, off to war, marched his two bodyguards, Leon Zadoff and "Stinky" Londoner. Unfortunately he left before the explosive manifestations of the Organic Lab. To his dying days Mr. Wiswesser will wonder what those purple clouds and sand explosions were, but Schatz and Pistrack will carry their unholy secret to their graves. Mr. Clayton is still considering doing research on that artificial rubber snake which "Bob" Safier produced in a spare moment. Incidentally, Admiral Yamamoto committed hara-kiri a week after Bob joined the Chemical Warfare service.

Our biggest contribution to the army was the best analyst in the school, Charlie Gilvarg (215 lbs.). He may yet find the answer to 100% on sulphate. Our biggest to the navy was "Mos" Leffler (200 lbs.), probably the most careful individual in the world.

Some were not so lucky. They hid from their draft boards and had time to finish the course. Some, like Herman Daneman, brightened our days with their culinary art and four pots of rice pudding. Phil Messina, "Hank" Pecorini, and Charlie Gilvarg

JUNIORS, DAY. Top: A. Klein, W. Oshinsky, J. Goldin, L. Cohen, M. Tierman, R. Sachere. Bottom: D. Hyman, S. Seltzer, H. Dombrowski, A. Ingberman, K. Petry.





will never forgive him for losing the seventeen pounds of meat on the Erie Ferry. Yep, that was Herman.

The strain of those Friday Phys. Met. lectures was relieved by the meetings of the Freshman reception committee with those two wits, Irwin Goldman and Danny Hyman, leading the banter. Inspiration was provided by the presence of "Shorty" Steinberg who, appearances to the contrary notwithstanding, is not twelve years old and is a member of the Senior class. Discouragement was provided by "Klem" Baczewski and "Pablo" Pistrack with some of the cornier current radio gags.

The terror of the Unit Ops. class and the reason for Mr. Allerton's premature gray hair was George Gudz, who was always finding something new, different, and bewildering in the problem being presented. George will go a long way and probably send more of his colleagues back to studying than anyone else in the Ch. E. class. He and Hal Flagenheimer always startled the rest of us by their persistent and correct work.

That solid citizen, Ross Corio, along with "Pec" and Abe Karp, did the athletic work that all of us should have done. Karp and "Lenny" Galanter, the two Hipsters from the Bronx, kept us up to date on the latest in the Bronx intellectual set. As for Sid Levy, he wrote this masterpiece . . . enough said.

Well, as we all look back on this all too short stay at Cooper, we're thankful that we made it, hard though it was. To the faculty and other friends we've made here, we say so long and hope that we will see them soon again.

## NIGHT SENIORS

The road from General Chemistry to Unit Operations is a long and tortuous one, with many a wanderer falling by the wayside. The war has also served to deplete the ranks until the number of men graduating can be counted on one's fingers.

Cooper Union men constitute what might be termed a first class "gripping" association. They all seem to bear the world's burden upon their shoulders. At this late date, however, let this class correct the erroneous impression engendered by this attitude, and bring to mind their many pleasant memories:

Dr. Stolzenbach quietly chuckling in the corner of the lab at the ineptness of his embryonic engineers.

Prof. Hope prescribing a formula for success as an engineer, the principal ingredient of which is "marry the boss's daughter."

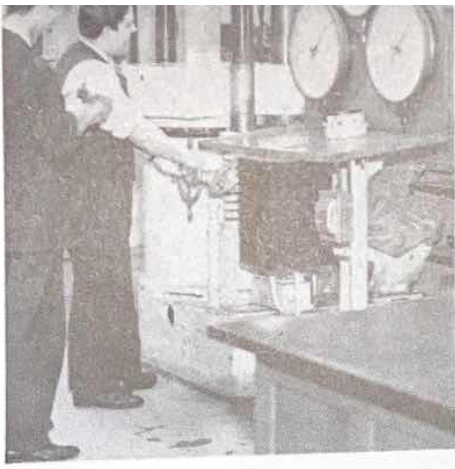
Prof. Sherman's lucid lectures in organic chemistry, which, regrettably, were a maze of conjugate bonds the week after.

We look back now on the good times and hard times we had at Cooper, but look forward to a hopeful future when we can pay our debt to Peter Cooper and help spread his generous and kindly philosophy of life.

FIFTH and SIXTH YEAR NIGHT. Top: M. Hanig, M. Brooks, E. Hartman, G. Banikotes. Bottom: J. Tomany, G. Cohen, N. Madsen, J. Yogman.







# C I V I L E N G I N E E R I N G

We men of the Civil Engineering class of December, 1944, will at times suffer a fit of nostalgia and wish to take a backsight on the traverse that we ran in Cooper Union. We shall focus on the cross bias. Slowly the field will come into view. . . .

We entered our first Civil Engineering classes in February, 1943. There were Alpern, Fellman, Levy, Sterling, Fogel, Leonard, Levine, Heinz, Lischick and Williams. Most of us were immediately invited into Room 12H, affectionately called "the Dungeon."

We immediately became proud of the fact that we constituted the "underground" at Cooper. (In)famous for our solidarity, we C.E.'s founded an institution at Cooper by camping under THE tree in Cooper Union during lunchtime, despite the many air raids.

We remember how Alpern and Crondell had attempted to convert H. Dombrowski to C. E. instead of the nauseating trail he did follow. Speaking of conversion, how can we forget the suppressed desire to transfer Levy to Ch. E.'s. But no, he followed us through our life at Cooper, always the paragon of efficiency in all things. And then there was the time that Levy decided to cooperate with the rest of us—that morning after the night before! On that night before, Bud hid Levy's pillows, Murray his mattress, Mort and Al cooperated to remove the bed while Alpern bathed the entire scene in a cozy blackout.

That first camp was swell. Under the impelling force of Mr. (Alkali Granite Tombstone) Roberts there was formed the "We Steal Steel Tapes Inc."—Milt, as President,

DAY JUNIORS. L. Levy, M. Fellman, A. Sterling, M. Alpern.





Murray as Vice (President), and Morty as business manager. Then too, they laughed when we took a minus backsight—till official sanction was received from "araM'O." But we always had our pride to keep us going—after all, it took us only 45 minutes to set up an instrument. Then there was Milt's love affair with the Dragon Lady of the "Dew-Drop-In," till he discovered that she was two-timing him by selling Pepsis to Morty too.

During the Summer session Milt, Mort, Murray and Al managed to get away to Rockaway one Saturday. Between the mud-slinging we exerted our talents in constructing reinforced mud structures with "Elyian" spiral sewer pipe drainage. What's more, we built two structures for the same cost as a layman could have built one. When the summer ended Bud Butler and Willy Williams left for the Army to protect our women. (They could think of no other reason.)

Passing through another camp session when Murray attempted to turn over an inverting telescope to see the view right-side up, we all slowly awoke to the realization that Morty believed that Mr. O'Mara believed that Morty believed that Mr. O'Mara was prejudiced against him.

From that September on, C. E. sweat flowed like fresh concrete with a  $\frac{w}{c} = 2.0$ . Draft boards reached out their tentacles for Morty, Murray and Al. Milt was in 2A, and Levy was to have his Bar Mitzvah any day. With five of an original twelve fellows left, and three lab reports every week, we got to know each other well. Women began to be (figuratively) flung around the Lab period, with Milt and Mort as instructors. Our respect for Crandell deepened with admission to M.A.O. Mort carried our banner as Treasurer of the A.P. Al thrilled us with an  $\frac{\text{input}}{\text{output}}$  of 200%. Milt did the A. S. C. E. offices inspect and the photography for the class, and Levy came to school every day.

Yes, we C. E.'s can look back on a rough but tough foundation for our road through life.

## SENIORS

Now that our ranks have been diminished by the rigors of war and Cooper's courses, the Senior Civil Engineers number only five. Our task was to prepare ourselves to fit into our country's war program and post-war reconstruction. Toward this end we studied hard and long.

Our fondest memories are of days spent at the Green Engineering Camp, surveying. Before our experience there, precision was only a word to us. Mr. O'Mara would beam with joy as he thought of the accomplishments of his budding young freshman surveyors, but when his thoughts wandered to the "veterans" of a summer and a half, only the presence of Erwin Apfeldorf prevented a verbal outburst. Due to the fact that

SIXTH YEAR NIGHT. J. Ungerer, D. Giardina, A. Mans, G. Kraemer, F. Visentin.





we had already learned the theory of errors in Least Squares, the problem of adjusting a three-foot discrepancy in a "precise" level net should have presented no difficulties. So we naively thought (not so Mr. O'Mara). And then there was the episode of the weak "veteran" who dropped ten feet—in a tape length—during the hazardous trek of Seymour Zubkoff's safari. Of course, our ultimate purpose, so misunderstood by Mr. O'Mara, was to make the highway problem a little more interesting. However, enough of our failings. . . .

We showed our courage and fortitude in our battle against the elements. In spite of the outdoor-man's best friend, stinkee de citronella, we waged a losing battle. The net result of the summer's effort was the accumulation of a generous reserve in the New Jersey mosquitoes' blood bank. In addition, we relocated some property stakes which, if taken seriously, will impede the good relations between Green Engineering Camp and its neighbors. We learned the use of the indispensable tools of a surveyor—pick and shovel. The lusty wielding of the brushhook by Epstein and Chanley to clear the line of sight was accomplished by an increase in size of the former's biceps and a decrease in the latter's avoirdupois.

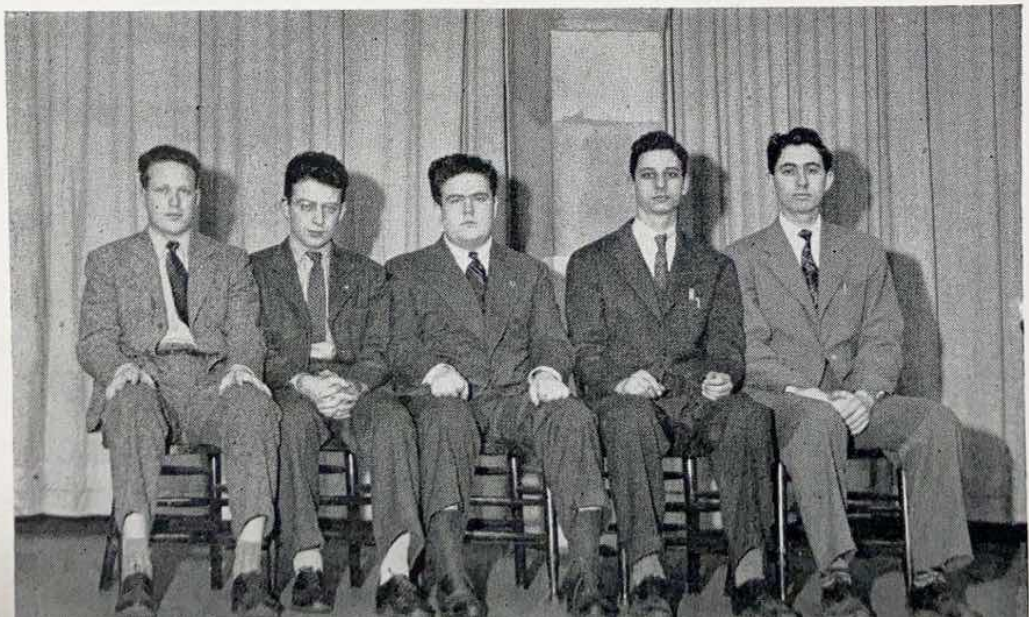
Back in the city we learned many things: for example, the most important person in a firm is the boss and the way to get things done is to have an experienced foreman.

Our class was not extraordinary; it was just the usual conglomeration of ungraded riprap. Slim Chanley was very adept at explaining things. Such explanations were invariably prefixed with the expression, "Now, let me put it to you this way," punctuated with mystic "No's"—and accompanied by gestures appropriate to the occasion. He had an amazing proclivity for breaking pyconometers and cracking jokes. Together with Apfeldorf he was supposed to take on the "Freeport Terror," Prof. Brumfield, in a wrestling match, à l'outrance; but Messrs. "Five by Five" and "Six by One" were apparently not desirous of causing any further turnover in the C. E. department. Besides, Apfeldorf, the epitome of gentleness, would probably quail at the prospect of applying the final squeeze. So the pleasure of contesting for the wrestling title is hereby bequeathed to future C. E. classes.

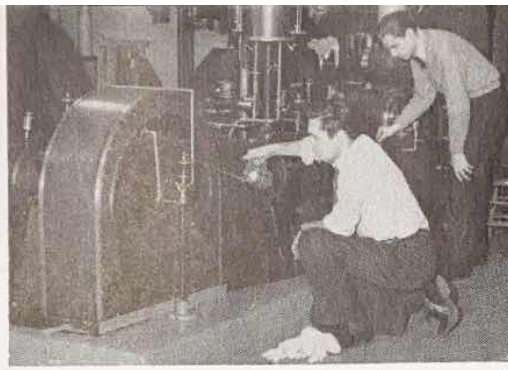
The only man alive who can read a slide rule to four decimal places, and stake his life on it, is Herman (the Lover) Soifer. Despite the fact that Herman originally hailed from the Bronx whereas Phil Epstein was strictly a Brooklyn patriot, there was no blood shed on this score. The latter, besides being an especially adept practical engineer, was the backbone of our class athletic activities. Last—but only because his name begins with a "Z"—is Seymour Zubkoff, Chancellor of M.A.O., whose work had that exceptional something, a one before the zero. He was most active in school affairs but this did not prevent him from piling up a high cumulative.

In conclusion we wish to bid farewell to Mr. Williams and Professor Sheiry, whose departure will be a loss to future Cooper students.

DAY SENIORS. P. Epstein, H. Soifer, S. Chanley, E. Apfeldorf, S. Zubkoff.







# M E C H A N I C A L E N G I N E E R I N G

No one knows just how many potential M.E.'s there were in the original Freshman class in July, 1942, when the present Juniors entered Cooper. But we don't talk about those things.

"This is war," said the Dean, "and there shall be no flunking in wartime." Memorable words those, but we wonder if all of the instructors heard them. Then, of course, Uncle Sam kept tapping the fellows on the shoulder. We can't very well count Zahradnick and Kravitz in our bunch any more, since they failed to heed the Dean's admonition. Our prize, Norma Rancken, is still with us and may well be the first girl to graduate from day engineering school. We're all rooting for a swell girl.

Starting our freshman year in a summer that suddenly seemed hotter than usual, we first had our high-school ego thoroughly knocked out of us at once by Professors Hope and Heil—one thought we knew too much, and the other thought we didn't know enough. The trouble was that we didn't know just which was which ourselves.

Somewhere back in the beginning of 1943, our M.E. class was organized—a strong group numbering in the twenties. We met up with Professor Merritt, and had many an interesting torture session—the agonized gasps of his victims can still be heard whispering through the halls of the Hewitt Building. And all he did was ask them questions! Speaking of embarrassing moments, Fuels and Combustion proved interesting and practical, but the way our members smashed their heads on the stone walls of frustration earned the course title of "Fools in Confusion." Professor MacDonald's races around the board taught us Calculus and Differential Equations. We had almost a month off in September and it seemed like heaven on earth.

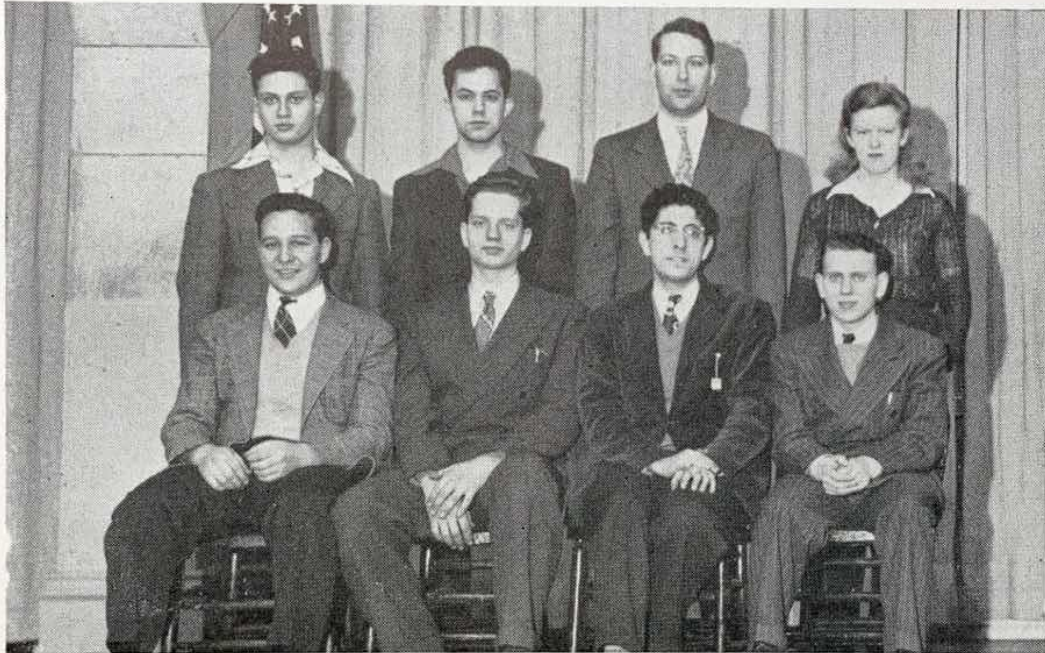
FIFTH and SIXTH YEAR NIGHT. F. Krukiel, H. Sutherland, E. Nelson, E. Neben, W. Dimm, A. Farley, G. Springer, N. Hoglund, A. O'Lenick.





With this Quarter system it is rather difficult to tell, but somewhere around last October we became Juniors, and with the turn of the year we began really to encounter what we had entered Cooper for—Mechanical Engineering. It was a bit subtle at first. Professor Brumfield of the C. E. Dept. began hammering Mechanics of Materials at us. He and Daskin immediately became fast friends—so much so that the benign professor went into great details describing Daskin's demise. Equally so with Brody, whom the shy instructor ardently desired to see follow another Brody off the Brooklyn Bridge. But it was all in fun and we had a swell time and learned how to "bend a beam."

As a whole, the New Year brought hope. Graduation was in sight. At the time of this writing nine months remained, but for all that might develop, it could well be nine centuries. The staff had proven itself sympathetic and all we could do was work hard and hope for the best.



DAY JUNIORS. Top: W. Daskin, A. Zahradnik, E. Kohn, N. Rancken. Bottom: H. Brody, R. Klint, B. Edelstein, L. Nemerever.

## SENIORS

The history of the ME's from Freshman to Senior is a saga of the jungle, for in a three-year stay at Cooper it has been the survival of the fittest. From the ranks of the many would-be ME's there remains but a battered and worn handful who were able to withstand the relentless siege of the draft boards.

The turbulent years, however, have had their lighter moments which shall remain stamped upon our memories indelibly:

Professor MacDonald's alarm pocket-watch which could be depended upon to go off in the middle of a dissertation on the *latus rectum* of various conic sections.

Handing in a qualitative analysis with your fingers crossed, and receiving a facetious "Are you kidding?"

Professor Roemmele's first lecture, which no ME could ever erase from his mind. The front row which wavered, and almost succumbed from the initial cyclonic blasts. The reverberations of the rafters, and the ear-ringing silence which descended upon us with the Prof's exit.

The power plant inspections with Mr. Brooks, most notable of which was the visit to the Ruppert Brewery where one inebriated ME was heard to mumble, "I got youse all beat," as he slowly disappeared from view beneath the table.

And then came the Senior year.



Strolling into Hydraulics Lab, we finally manage to get a quorum before 2 o'clock. Then the orgy begins—Flash, Mirels, Mollick and Zigas on the poop deck, Dick and Charles on the main and the Bobbsey boys and Joe in the hold. With bells ringing and Milt singing we get under way. Four more runs . . . ten more minutes! "More water, more water!" Milt yells as he unwinds the valve. Dickie boy, not content with the way the black gang is operating, runs down to push the pumps further . . . naturally the pump stops altogether; with the boys crying into the turbine tank, the level slowly recedes.

No doubt the most informative of all courses, Industrial Management, was really the culmination of our studies—report writing, economic studies and enameling. What with the troubles of the Chemical Products Corporation dumped into our laps, our views toward responsibility were greatly enlarged. However, this was disproved somewhat by the marks on Prof. Young's daily double. We've yet to see a class average over 4.

Friday ME lab day, and never has the sun risen on a sleeping ME.



DAY SENIORS. Top: F. Koniges, R. Braun, H. Cook, B. Janofsky, C. Alverson, J. Levitt, M. Ojalvo. Bottom: A. Sloan, M. Mollick, M. Frieder, A. Zigas, I. Granet.

Dickie Boy slips into Prof. Roemmele's empty Rathskeller and a thirty-pager falls to the table with a sickening thud. Soon after, the Bobbsey twins arrive. Enter Mollick and Mirels. Mr. Salma's pile grows no higher. A hasty count of the haves and have-nots is taken. "Frank, you didn't write it up, did you?" "Swell." "Joe?" "No!" "Great!" It is only when neither side gains a decisive majority, that the tension is relieved. The clenched fists of the have-notes are relaxed, harsh words of "scab," to say the least, are modified—Zigas puts down his chair, and once more fraternal peace reigns. On with the test!

"You-know-who" springs to the apparatus and repels all attempts to displace him. "I'll take the dynamometer, thermometers and piezometers; you boys can read the manometer." A weak protest from the foreman falls on deaf ears. As hot steam fills the room, the Faculty retires to a less forsaken spot. To the fellows, however, this is merely an excuse to bare their manly chests. No weaklings these—and talented too. With Artie nursing the cooling water and Oje at the Root's meter never did a Ford engine run so smoothly. Four-thirty finds the boys still pooling data in 6H.

Friday is ME lab day, and never has the sun set on an idle ME.



# E L E C T R I C A L



# E N G I N E E R I N G

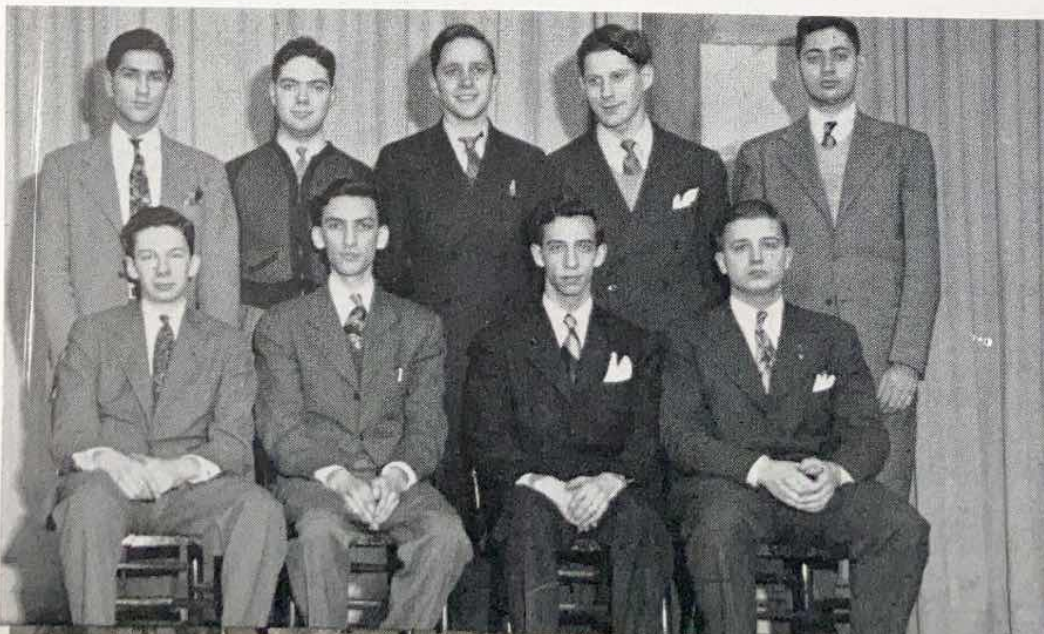
Twenty-one students, firm of mind and stalwart of body, confidently elected to follow the courses given by the Electrical Engineering Department. The outstanding (that is hardly the word for it) courses of our sophomore and junior years were circuits I and II, under the kind and gentle ministrations of Mr. Tallman.

We weathered Circuits I and D. C. Machines fairly well, considering the draft and summer session. In fact, an interesting sidelight was the comment made by a school official noting the great strain placed on the instructors by the accelerated program: "Poor boys!" As usual, the foursome of Pfeffer, Szmojsz, Landauer and Menes came out on top. Confidence was our greatest (and perhaps only) asset, for Mr. Tallman was given the honor of continuing to instruct us in the finer principles of A. C. circuits.

Our general attitude was considerably damaged by the overconfidence-inducing remark of Mr. Tallman with six repeaters in the room. "There is absolutely no reason why anybody should flunk A. C. circuits." We regret that, in order to disprove this theory, nine men had to give their lives. Is it worth that price to disprove any theory?

It was at this time that we first entered the Lab, under the leadership of Prof. Nudd and his associates. We are still in awe of his knowledge of the construction and operation of electrical machines; a man who can hear a motor turning in the wrong direction from the other end of the lab.

DAY SENIORS. Top: T. Schwartz, G. Bernstein, S. Davis, H. Goldberg, J. Feinstein. Bottom: J. Kaplan, B. Levine, D. Santogrossi, S. Levander.





We are quite proud of our class, for, to date, not a machine has left its bedplates, nor a wattmeter been burned out. We fondly hope to continue this excellent record.

With our class dwindling due to the draft and Mr. Tallman, we are getting to know each other much better. The inseparable partnership of Girsch and Landauer is evidently well established and has little chance of dissolution, as also the partnership of Pfeffer and Rankowitz. One mystery is how Mr. "5 by 5" Landauer manages to be in 10<sup>10</sup> places at once, but only to those who do not know him.

Dale Zand is still willing to talk about his famed electric circuit, and no attempt is made to belittle his remarkable achievement. It is one of the most ingenious things we have ever seen. And then we have Jerzy Szmojsz (whose name we have given up trying to spell a long time ago). Once, upon Pfeffer's spelling his name "Szmojsz," Jerzy remarked in all seriousness, "My God, how could you possibly pronounce it that way?" Was he kidding? And what would we do without our star pitcher and basketballer, Howie Miller?

Bob White no longer uses the expression "Oh, that's obvious," for obvious reasons. His brilliant thirty-six-tooth smile seems to say "God's in His heaven, all's right with the EE's." We cannot understand how Willie Pepper manages to read Eddington and Esquire at the same time, and apparently understand both. (At least he can debate with great fluency about them.)

Bernard Loveman, our red-headed gift from Monroe, is always ready with a willing smile to brighten any dull day. George Bernstein was foreman of the lab squad which one day filled the lab with smoke so thick that the other members had to use Radar to make their way to safety. And last, but certainly not least, is Sol Tanne, of Atlas-like build, who has us all jealous of his physical prowess, and looks all-knowing, even when in doubt about the correct answer.

## SENIORS

When the sophomore year rolled around, thirty-odd chipper but wiser sophomore E. E.'s started their first war-time session. That sophomore year must have been easier, for we all got through, and the E. E.'s bagged the highest average of our class. "Bring on the E. E. department," we thought, "they can't be as tough as rumored."

Bang—Mr. Tallman and Electric Circuits I. Our marks were so low he couldn't fail one without failing all. We all passed. Mr. Tallman told us that we were definitely the worst class he ever had, just as he had told the last ten classes before us.

Twenty-four answered present as we started Electric Circuits II. Twelve were still standing at the final bell. Mr. Tallman did it again.

Professor Towle's course clipped a few, the Army helped and Mr. DiGiovanni did the rest.

DAY JUNIORS. Top: W. Pepper, I. Pfeffer, B. Lovman, S. Rankowitz, R. White. Bottom: W. Landauer, H. Miller, S. Tanne, S. Girsch.





So we find the Seniors E. E.'s, a select group of ten, taking their last courses. What sort of bunch are they who have withstood the biggest guns in the E. E. department?

In the Communication Option we have the best record in the entire graduating class, Joe Feinstein's. It is a unique situation when Joe hasn't done his homework at the right time. The only rarer one is for it to get out of his sight for more than three seconds.

Joe Diamond has also been brought out of his quiescent state by the freshmen. Joe is without doubt the math whiz of the class. The problem has really got to be tough before Joe says "Uncle."

"Well, yes, maybe—oh—you might—but—" that is Tom Schwartz trying to get out of a tough situation with any one of a dozen profs. The Thursday afternoon dance is the big moment of Tom's week.

In the Power Option we have, reading from left to right, Sidney Davis, who is known to all Cooperites as "Deadly." It's three to one odds that Sid has read every library book on the E. E. shelf. The suitcase he carries around everywhere he goes contains at least twelve volumes. Deadly's monicker may be attributed to his destructiveness in the E. E. lab. Oh, you poor wattmeter.

A typical Monday morning ritual, as observed by the early birds in Machines Lab., is Levander's bursting in fifteen minutes late, scrawling his John Hancock on the binder of his lab report and breathlessly busying himself with the day's experiment. Levander's toughest job is rounding up the members for A. I. E. E. meetings on Thursday afternoon.

Professor Starr's Wave Theory course is one of the most fascinating yet encountered by the E. E. students. There is one incident, however, which brings a comic interlude to this session. The sound of gurgling emanating from the corner of the room proclaims to the class that Dominic Santogrossi is indulging in his vitamin pills. Dom seems to be a new man since he began his vitamin habit. His great sense of humor and cooperative spirit make him an indispensable member of the class.

Hal Goldberg is probably one of the most active E. E.'s in the class; extra-curricular activities keep his mind well occupied. It is doubtful if in his two years' study any professor has kept Goldberg silent when a question is raised. It seems that some curious soul has been keeping a record of Goldberg's correct answers, and he has discovered him to be wrong 87.73 per cent of the time.

But the complexities of life at Cooper have not done damage that a few nights of good sleep won't remedy, restoring the average E. E. to his customary state of high spirits and ambition.

THIRD and FOURTH YEAR NIGHT. Top: J. Fench, N. Dover, J. O'Connor. Bottom: M. Rosenick, P. Krikorian, S. Nachtigall.







# A R T S C H O O L S

## FIRST YEAR

This Freshman Art class is one of the largest in the history of Cooper and also one of the most versatile and ingenious. What other class can boast of a mad genius called Rodney Marshall Winfield, who is responsible for Jabberwocky, the freshman bombshell publication?

Through the untiring efforts of Ruth Reimann, the girls are now able to get physical education and swimming free of charge. After hearing the gals speaking about the grand times they have at the Church of All Nations pool, Henriette Schutz decided to pay them a visit. Were the girls' faces red! "Now, don't be afraid," and "Oh, you'll learn," was what they told her until Miss Schutz went into action and showed them what a backstroke expert can do.

The foursome—Eve, Claire, Flossie and Shirley—are now convinced that even teachers—especially one—are human. How did they arrive at that conclusion?

We have really taken the school by storm.

Who is in the Glee Club? Mainly the freshmen.

Who is in the Dancing Club? Mainly the freshmen.

Who has a monopoly on the ping-pong table? Eve, Claire, Edna, Dot, Betty, Jerry, Terry and Pete (freshmen).

Who was it that made Pen Tracks possible. Dr. Buckingham with the support of the freshmen.

Who was it that made "Suzy" immortal? The freshmen.

Who brought Miss Schutz's creative growth to life? Efrem the freshman.

Who established week-ends for girls at the Green Engineering Camp? The freshmen girls.

Yes, we sure are proud of ourselves, and although we are not all geniuses, we are slightly peculiar. Look at those two famous teams of the Bunnies and the Greenies; and what about Charlie and Robert-Oh? The Army's gifts to Cooper, Ernest and Joe, are now making sheer hand-made blouses in Mme. Lyolene's class. Joe can not only sew, but, along with Ozzie, starred in most of the basketball games. What a man! We must, of course, here mention that from the first day on, we noticed an inseparable foursome spring up. Namely, Mr. Gwathmey's "Rover-Over Girls"—Terry, Betty, Eddy and Dot.

The freshmen girls also had the dubious pleasure of being the first to trespass on Lavanburg Corner House Gym as an audience to the basketball games. Some of the braver even entered the austere portals of McSorley's Old Ale House (established 1854—No Women Allowed!).





SECOND YEAR DAY ART. Top: D. Wise, S. Schwartz, H. Harney, B. Monet, F. Vickery, P. De Tomaso, J. Duncan, M. Schoen, P. Enselberg, S. Hagel, A. Henderson, R. Burnaford, M. Mintz. Bottom: T. Bergen, T. Sitzler, B. Busatt, J. Ream, C. Barber, E. Unger, J. Falcon, H. Lehto, E. Lutze.

Faster than we could realize, these little trivialities which made our life here interesting also made it race by; before we knew it, to our deep regret, our freshman year was behind us. We challenge the next freshman class to equal our feats of bravado.

## SECOND YEAR

The return of the Sophomore class to Cooper might have been best termed "The Awakening." No longer were we the dreamy, carefree "chillun" of the year before. Our excess Freshman energy, previously applied to mischief and the like, was now harnessed and our teachers held the reins. But everything wasn't as grim and dreary as one might be led to believe. The reins slipped sometimes (as all good reins will) and then . . .

From the dust of the great elections of 1943 emerged Charlotte, as our wise-cracking, Cooper-Snooping, carrot-eating president, along with her two confederates. The eternal triangle of all eternal triangles came into being this year—that of "Cinema" Stork, "Ball and Chain" Burnaford, and "Sideburn" Sam. One can almost see them slinking out of class now. McSorley's again? Each Wednesday we would breathlessly await the results of the race—who can get out at recess the fastest?

FOURTH YEAR DAY ART. Top: M. Mullenec, P. Gutman, E. Pearlman, R. Newman, A. Capello, B. Sharpe, O. Golben. Bottom: G. Campa, J. Reen, M. Spence, M. Briggs, E. Gentile.







FIRST YEAR NIGHT ART. Top: J. Scherer, R. Rocklin, T. Smitham, M. Giordanno, A. Gold, O. Koopaletties, C. Lillum, D. Blake, L. Levingrub, O. Danforth. Bottom: A. Leider, E. Schoen, R. Beinheltz, R. Evelove, A. Heimann, J. Cooke.

It was nip and tuck between the "triangle" and the clan of Duncan, Busatt, "De Tomato," and, of course, our own Chick. "Don" Wise might have had more success pussyfooting late into class if he'd camouflaged those shirts. Mr. Mangravite had a most difficult time trying to undo what those colors did to some of our painters. Morty Mintz might well be called one of the hardest workers in the class. We really painted all kinds of things, though—even scenery for the Dramatic Club. Look, there's Helen and Jean now, learning all about it from the "great" Herman. By the way, we can boast of four Jeans, each spelling her own name differently. The small but mighty architectural class welcomed back the calming influence of Henriette. Alack and alas, their one and only Seymour has gone to visit his Uncle Sam. Yes, the draft really hit us—only five left now, but they're still going strong. Incidentally, so is that advertising section. They say it's just packed with genius. But that's not all; they have a real, honest-to-goodness, Southern gal to their credit. Many thanks will go to Shirley Hagel and Joan Fenton for those sketches in the Freshman Handbook. Last, but by no means least, come the lovelies of the class, the fashion girls. Not only do they create beautiful costumes, but ably master those all-powerful sewing machines. Just watch Elsie, Phyllis, Eenie or Shirley, and how they do it. They really don't look as if they were going to Art School—all dressed up like that and putting the rest of us to shame.

FOURTH YEAR NIGHT ART. Top: H. Burt, S. Bernstein, M. Weisman, V. Di Giacomo, V. Kaboolian, C. Jerabeck, L. Russell. Bottom: E. Mussehl, E. Keats, S. Schercker, L. Jascinska, P. Hoffzimer, B. Shearer.





Our Freshman year was fun, and our Senior year will be something to look forward to. But being a Sophomore-Junior is a glorious experience, and we wouldn't change places with anyone—for just think, we have a whole year more left of going to Cooper together.

### THIRD YEAR

A condensed history of the Third Year graduating class might be compared to the old saying, "Entering like a lion and emerging like a lamb!" Of those seventy-odd

FIRST YEAR DAY ART. Top: S. Lombino, O. Piagentini, M. Glass, H. Lebowitz, J. Marshall, A. Schwartz, H. Watson, C. Avers, H. Suriff, C. Weininger, J. Maulsby. Bottom: R. Nelson, L. Egerman, R. Reiman, R. Paine, L. Lubin, B. Russel, L. Ericson, E. Fernandez, G. Pival, C. Rosenman.



FIRST YEAR DAY ART. Top: P. Palazza, J. Palamara, R. Winfield, F. Klein, F. Greengold, B. Greenwald, S. Venit, J. Fleisher, B. Bowne, D. Woods, M. Craco, J. Mandelbaum, I. Lepselter. Bottom: C. Fergenson, E. Morgan, F. Kurland, D. Schneider, E. Lackritz, T. Obermayr, B. Morton, L. Elorduy, G. Maddi.

students who entered "The Coop" as freshmen, twenty-seven are our contribution to the graduating class. The absent members are distributed in the military services, in war work, and in night school.

In order to counter-balance the shortage of men, not to mention of girls, we have gone completely haywire. In the effort to cover up our aching hearts we have taken to a number of vices—for instance, we are going "steady." Hanna Adler, the wonder child, has found herself a geo-political shark named Edna Evans. Eleanor "golly-what-a-rug-hooker" Daugirda and the fashion expert Jo Montelbano;



our pin-up girl Shirley Morris and Marianne Salinger, the only girl in Berlin who could boast chewing gum; "Kiki" Harris, class representative in the engineering school; and "Flit" Walters, always different, who's sponsoring cordial relations with the R. C. A. F., make up a few more happy couples. Then we sport a Nelligan tribe, made up of the constant nymph Bruna Locatti, Lorie "the prober" Dodge, and the building genius Emily Nelligan. But our special delight is Leo Reeves (he's married, girls!) and Stan Glaubach.

The rest of the class are characters—just plain characters! There is Lillian Eckelt—

THIRD YEAR DAY ART. Top: N. Landau, K. Harris, M. Craig, J. Montelbano, L. Ascher, L. Eckelt, E. Cobert, S. Jaffee. Bottom: S. Lowenthal, P. Waters, S. Rich, H. Adler, M. Salinger, S. Morris, S. Edwards.



SECOND YEAR NIGHT. Top: H. Jaffe, H. Silverman, M. Jacobs, A. Markov, M. Mostowy, A. Rynas, C. Luckman, F. Dopp, L. Fogel, M. Barchat, V. Dolan, M. Nicholas, C. Rosen, B. Croly, R. Sweet, H. Gazess. Bottom: H. Weingarten, L. Cohen, D. Hoffman, C. Blank, L. Cohen, D. Rosenblutt, H. Sabo, E. Kaartiner, R. Vogel, M. Kalakura.

such a crazy diet, one day she eats and the next she starves. Florence Haberman is quiet but we have our doubts. Anyway, she'll make someone a swell wife (hint). Herman says that Susy Jaffe is the biggest tease in Cooper, but Mrs. Harrison puts it more poetically when she says that "Susy is in another world." Another one of our classmates was making a baby carriage when last heard of. Why, Shirley Edwards! We never knew! Lillian Asher is our own Garbo—but she doesn't want to be alone. With Sadith Everson we can't keep up, nor with her men either. And, um-m-m-m! Shirley Rich! What more can we say? Irma Cobert's talents



come in spurts and spasms. She sings, she dances, and, oh, what eyes! Ann Duncan—she is crazy about art and men—especially men. Oh, those Duncan girls!

The famous Engagement Row, located in Room 706, consists of Anne Lebenson, with her pretty face, curly locks, and famous giggle. Sorry, boys, Murray got there first. Second is Marion Craig, whose ship, we hope, will come in soon, with Frank on it. Then comes Natalie Landau, plus long hair, Harvey, infectious talking, and amusing stories. And last, but not least, Shirley Lowenthal—Stan's approval, baggy pants, dirty smock, and Ray—the lucky guy!

I guess that just about brings us up to date—except that there seems to be a problem which the third year artists are having a helluva time solving. What happened to Junior? Oops, we mean, the Junior Year? It got lost in the Deanery, we guess!

#### FOURTH YEAR

This is the story of a class gone to war. We were eighty in September, 1940—now in our senior year, fifteen are left. The last, they tell us, of those taking four years to absorb Harrisonian principles, studying painting with Kantor—with side bits of gastronomical knowledge. For he has a recipe for chicken "Spanish Style" that makes 12:30 and lunch seem very far away. We went to the circus, where we were stared at so much because of our sketching we thought we ought to charge admission. We went to the beach where no painting was done but we had fun eating sand in our sandwiches and seeing how close we could come to drowning ourselves. Trips to Green Camp proved that we were all healthy outdoor girls, especially Mary Milunec, who broke through the ice to take a plunge. Frequent trips to the Modern Museum, a sort of Cooper Annex to many of us, and Red Cross Recreation work for many of us took up most of our time. In case you have been wondering—we went to class too.

Our greatest contribution to the world has been the many boys that have left to join the armed forces. Ashley Bryan is cementing Anglo-American relations in England and loves it. Louis Finklestein of the Finklestein-Goustin combine is going to be a pilot one of these days—wonder if he flies a cosmic plane? Larrie Harrison is also going to be a pilot. He realized the lofty aspirations of his freshman year and married the senior girl of his dreams, Natalie Zimmer. Eva Stein reversed the process and is all tied up with a Freshman Engineer. Al Mullen, Bernie Spence and Bernie Bauresfeld are decorating the Navy; Harvey Rosenthal, Lowell Cady, Clem Fisher, Joe Pniewsky and many others are GI Joes.

And so we say good-bye (perhaps our teachers will say good riddance), but we had a good time.

Our Senior class officers who mothered and bullied us were Betty Sharp, Secretary, Judy Reen, Vice-President, and, tiredly yours, Marje Spence, President.

THIRD YEAR NIGHT ART. Top: M. Emmanuel, B. Nachsatz, G. Tuni, M. Benedetto, M. Lager, A. Faxin, I. Smith, J. Bromnes, S. Sakalian, R. Rabinowitz, S. Berkley. Bottom: H. Pappas, A. Magdito, E. Woschke, M. Pesce, C. Rice, O. Ryan.







GRADUATES

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A graduate's farewell used to be a simple thing, for in reviewing the history of a graduating class there was little new that occurred through the years. The names changed, the dates changed, but the events were stereotyped. But our class did not progress according to the traditional pattern. During the years of our stay at Cooper, we witnessed the most extensive changes that had occurred in decades. Some of these changes were inside the school and others were in the outside world. They all affected us deeply.

When most of us were lowly Freshmen, just getting used to the tough exams and excessive homework, we became, suddenly, citizens of a country at war. The full significance of this change was not apparent at once. But soon we realized that we could not make of Cooper Union an ivory tower in which to escape from the responsibilities of the times. It was our duty to devote ourselves, each in his own way, to aiding the nation in its war effort.

In the School of Engineering we were determined to satisfy, as quickly as possible, the demand in industry for trained engineers. As a result, towards the close of the Freshman year we learned that we were to have the exhausting privilege of being the first class that never enjoyed a summer vacation. The hot labs during the summer days and doing homework and fighting off insects during the sticky nights will not easily be forgotten. We changed over to the quarter system in order to facilitate the administration of the accelerated program. In the resultant confusion the most often heard query was, "What are we, Juniors or Sophomores?" And the men in the Night School found that it took courage to work fifty hours a week in a war plant and still continue their studies.

In the Art School, our talent was directed as much as possible into support of war activities. Instead of the usual peace-time pursuits, we designed War Bond sales-booths and similar objects. Not to be outdone by the Engineers' accelerated program, the art course was streamlined from four to three years. Thus the present graduates present a rather unusual picture, since they are made up of both third and fourth year students.

In all the schools the most apparent effect of the war situation was in the number of our men and women gone from our midst into the armed forces. The artists lost a greater proportion of their members than the engineers did, but there is not one of us graduates who has not said good-bye to several of his fellows. These farewells and our missing classmates will be remembered for many years.

Indeed, our class has experienced a series of events that have been peculiar to us alone. Leaving Cooper, we take with us not only technical knowledge and the usual memories of work and fun and self-satisfaction. We take with us the sobering recollections of our country, and our school, engaged in a bitter struggle for existence. We also take the hope that some day in the near future the graduating class will not have to look back upon a college career complicated by the problems of a world in turmoil. Then, once again, a graduate's farewell will be a simple thing.





### CHARLES T. ALVERSON, JR.

First on the list, last in his seat. There isn't a fellow in the class who can dispute this O. D. P. man's significant figures when the slide rules start riding down in ME lab.



### ERWIN APFELDORF

Appy, a "civil" civil engineer, polite as an English butler, industrious as a perpetual motion machine, precise as a theodolite, is well liked by everyone.



### KLEMENS C. BACZEWSKI

Klem is a member of AICHe, MAO, The Newman Club and the Camera Club. Never without his tie or his homework.



### GREGORY BANIKIOTES

Greg, who is our strongest advocate of marriage as an institution, is the most painstaking and conscientious of students as well. This may be attested to by his membership in the MAO.



### WALTER A. BARRON

Walt is one of the more efficient of the night M.E.'s. Hard-working and ambitious, his classmates predict a brilliant future for him.



### RICHARD BRAUN

A bundle of business and a man who will be heard, our Dickie boy really can get up steam. With this Pioneer man around, even the floor has ears.



### SIMEON CHANLEY

Sim, secretary of the ASCE, is hard working and capable, it being generally agreed that whatever he says or does carries a lot of weight behind it.



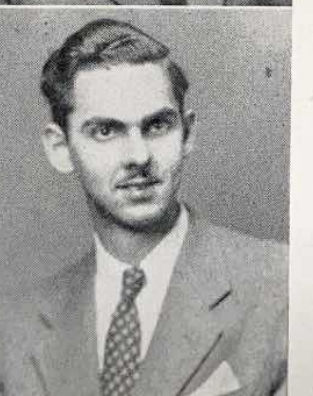
### HENRY E. COOK, JR.

The anchor of ODP, Hank is probably our greatest B. T. O. (Big Time Operator). When this chief engineer in charge of staples isn't eating, he's keeping up the morale of the various CU activities.



### ROSS CORIO

Ross is an active and popular member of the Athletic Association and the intramurals in basketball, baseball and football. He is a member of the AICHe and vice-president of the Senior Class.



### HERMAN L. DANEMAN

There is no phase of day school activities which Herman does not have a hand in. His many and varied idiosyncrasies are a constant amazement to his friends.





### **SIDNEY DAVIS**

"Deadly" is the E.E.'s pride. He's a fine student and gentleman, reads Chinese, Arabic and is an excellent boxer, through knowledge gained in the Cooper Union library books. In addition he is a member of M. A. O.

### **JOSEPH M. DIAMOND**

Differential equations are the "meat" of this M. A. O. man and tough lab experiments his "gravy." He is ecstatic about folk music and a camera enthusiast. He is the other half of the Diamond-Schwartz Communications network.

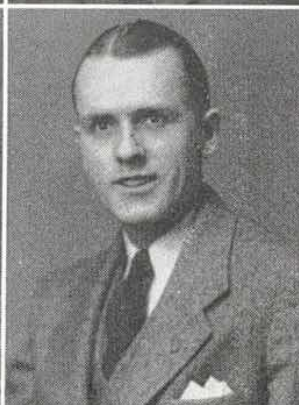


### **WILLIAM DIMM**

One of the few night engineers who has managed to retain the last vestiges of his athletic inclinations, Bill indulges in golf, tennis and swimming.

### **WALTER O. EBERHARD**

Walter is one of our outstanding sports enthusiasts. One marvels at his ability to perform a hard day's work, attend school at night and participate in such sports as fencing, archery and gymnastics.



### **PHILLIP EPSTEIN**

Noted for speed and efficiency, Phil has the answers (so the legend goes) before the instructor's finished the question—and right too. A time-study engineer's dream.

### **ARTHUR J. FARLEY**

Whereas most engineers are concerned with calculus, titrations and megacycles, Art's outlook encompasses much more for he is equally at home in the lab as in a panel on contemporary society.



### **JOSEPH FEINSTEIN**

The best man in his class and definitely the most remarkable, in that he has never stayed up later than 10 P.M. with his studies since coming to Cooper.

### **HAROLD FLEGENHEIMER**

Harold is one of the more industrious members of his class, in spite of which he's well liked. He is secretary of the Debating Society, a member of the Math Club and AICHe.



### **GERARD A. FRANK**

All of Gerard's efforts are directed toward one goal—that of becoming a first class engineer. His work at Cooper indicates that he is well on the road to achieving that aim.

### **THEODORE H. FRASER**

Well liked and admired by all who know him, students, faculty and fellow members of the A. S. M. E., Ted has come through with a minimum of fanfare, yet quite successfully.



### MARCUS A. FRIEDER

One of the quieter M.E.'s, he is as intelligent as he is witty. When a subtle question comes up, Marc will undoubtedly have the answer. Maybe that's why he is always smiling.

### LEONARD GALANTER

Lennie, missing member of the class, was the only student in recent years to carry a program totaling zero hours for one quarter. He is the sharpest dresser among the Ch. E.'s.

### HAROLD GOLDBERG

Editor-in-chief of the Pioneer, M. A. O. Scribner and member of the Dramatic Club are but a few of the many activities of this ambitious red-head. His ability to say the right thing at the wrong time is phenomenal.

### IRWIN GOLDMAN

Irwin's keen sense of humor and immense popularity account for his chairmanship of the Freshman Reception Committee. He is Ruler of LSK, and president of the Debating Society.

### ARISTIDES GOUZOULIS

Aristides is the practical man of the class, delighting in amateur telescope making. During the day he is engaged in the design of intricate mechanisms for radio equipment.

### IRVING GRANET

Prompt on the problems, I. G. is the senior partner of the Bobbsey duo. We've yet to take an exam when this man didn't look as though he had been through a wringer.

### GEORGE GUDZ

George is probably the most rugged member of the Ch.E. class, for he is often seen outside in his shirt sleeves, snow or no snow. He likes classical music, and is a member of the Debating Society and AIChE.

### MURRAY HANIG

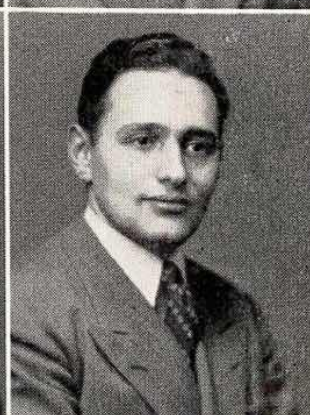
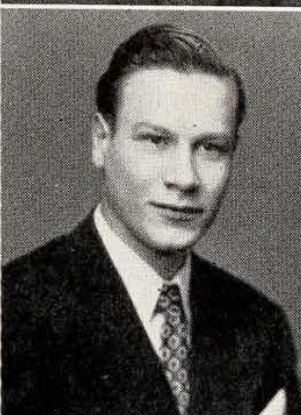
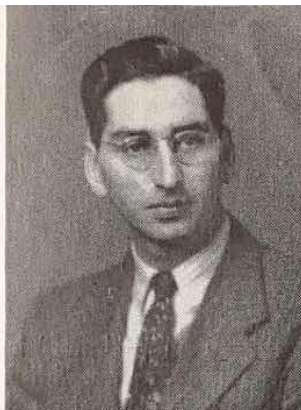
Murray, an MAO member, is one of the most difficultly convinced members of the class. He will not give an inch when he thinks he's right, but he's first to admit it when he's wrong.

### IRA R. HEIMLICH

This quiet but well liked member of the E.E. section is the owner and operator of W 2 L E T. It seems that Ira was destined to be the successful artist type, or so the members of his Approach to the Arts course say.

### NILS HOGLUND

Nils, a member of MAO, is one of the quieter members of the class. He has never been seen to copy an assignment from any of his classmates. This is an accomplishment.





### **SOL JACOBSON**

Sol is another Brooklyn boy. He sometimes falls a bit behind in his assignments but always catches up on time. His pet peeve is that the instructors don't tell him the answers.

### **BERNARD JANOFKY**

The power-house of the Bobbsey duo, "Janof" is always to be found in the library—reading Esquire. Hiding behind that shrubbery is a solid citizen with his feet on the ground.

### **JULIUS Y. KAPLAN**

A man's man, this Plainfield, N. J., boy's pet peeves are the annoying phrases: "It can be shown," and "Obviously." When and if any spare time presents itself, Julie likes to ice skate or play softball.

### **ABRAHAM KARP**

"A" Karp's sharp sense of humor and ready laugh account for his popularity. He is a member of the Debating Society, Dramatic Club, Cable Staff and the AIChE.

### **RENO C. KING**

He's had a grand time for six long years, and is waiting to wipe away the sweat and tears and then yearn longfully for that grand old place on Astor Place.

### **FRED KRUKIEL**

Fred claims that he has spent entirely too much time with his studies, and that his social education has been burning the candle at both ends.

### **FRANCIS G. LATOUR**

With an exam in the offing, Frank is a serious and conscientious fellow, but away from school one finds it difficult to keep up with his ever ready pranks and humor.

### **SEYMOUR S. LEVANDER**

Participating in an exciting ball game is a leisure time activity welcomed by this L. S. K. Frater, A. I. E. E. Chairman and M. A. O. Bursar. This friendly, exuberant E.E.'s greatest delight is the enduring friendships made at Cooper.

### **BERNARD LEVINE**

One of the stalwarts of the E.E.'s, Bernie is very often heard many seconds before he is seen. A Brooklyn boy, he's spent many a morning talking things over with Prof Vopat coming in on the subway.

### **JOSEPH LEVITT**

Broadminded girls and foremanship in ME lab are Joe's meat. Some day we'll get that data pooled! Despite his tenacious disapproval of anthropology, he's really a healthy, normal young man.







### **SIDNEY LEVY**

Sidney is noted for his advanced theoretical discussions of all non-theoretical phases of a problem. He is a member of the AIChE and the Cable staff.

### **NELS MADSEN**

Nels is a conscientious worker and has been one of the most capable men of the class, as his membership in MAO attests. An analytical chemist for several years, he is also the rumba expert of the section.



### **PHILIP MESSINA**

Philip, popularly known as "Mess," sports the "mostest" mustache of all the other members of the Senior class. He is a member of AIChE and the chairman of the War Board.

### **ALVIN MICHAELSON**

Argumentative and outspoken, Al will fight to the end for what he believes is right. These qualities have earned him the reputation of being a crusader.



### **HAROLD MIRELS**

Hal is beyond a doubt the best man around, foot for foot. "Would you like to make a wager?" In his manic phases he's quite a man with the women. We hear he also plays basketball.

### **MILTON MOLLICK**

Where there is a noise there is Milty. But within that volume can be found a swell guy. A great dancer, Milty is unquestionably the class piece de resistance.



### **FRANCIS PERIN NELSON**

Frank has a good deal of ambition, as attested by his successful completion of studies. Besides being a hard-working student with a good sense of humor, he is a member of the A. S. M. E.

### **JAMES NESTOR**

Jimmy has a yen for music, both "swing" and the "long hair" varieties. He also likes dancing and camping. Most important, he's engaged, and will marry soon after graduation.



### **LESLIE NOZDROVICZKY**

Les lives by the motto "Deeds, not words, make the man." The class wonder and a member of AIEE and MAO, his ambition is to be a successful radio engineer.

### **MORRIS OJALVO**

The prime mover of Cooper Athletics, Ojje has proven his versatility by being president of SAE and a persistent patron of the Art School. Being the Doctor's right hand man really puts him in the know.





### ANTHONY J. O'LENICK

Tony, who hails from Jersey, has made many friends in spite of it. He spends most of his working hours striving to realize his ambition; that is, to become an Engineer.

### ERNEST PATAKI

Quiet and soft-spoken, Ernie weighs his words carefully before saying anything. He is one of those rare men who can shrug his shoulders at the worst that befalls the struggling engineer.



### HECTOR PECORINI

"Pec" of the battered hat is an MAO man. Moreover, he is human, as evidenced by the support he contributes to the class basketball and bowling teams. He is a member of the AIChE.

### PAUL PISTRACK

Paul is an active member of his class, as evidenced by his membership in the AIChE, Camera Club, and the Pioneer. He is Secretary of the Senior Class and the business manager of the Cable.

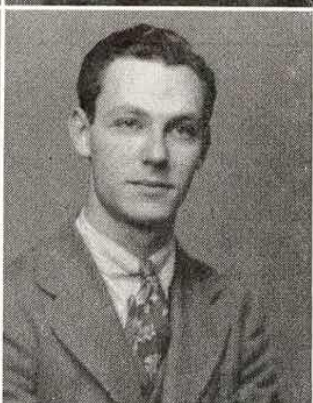


### JOSEPH REED

Joe is one of the school's foremost politicians. He is as quietly efficient as a hydraulic press and is always certain to come up with the right answer.

### CHESTER A. REIN

Chet is the school's gift to the electronics field. This is attested to by his job with the Sperry Gyroscope Corp. He is also active outside of class, belonging to the AIEE, PSO and IRE.

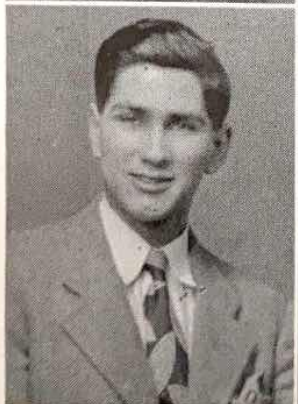


### FREDERIC G. SALTZ

Although Fred is the man who is a stickler for details, he can always be relied upon to ask a sensible question at the most opportune time. He is a member of the ASME and of MAO.

### SEYMOUR SCHATZ

"Schatzy" is Class Treasurer and a member of AIChE. His ready wit makes him a favorite of his classmates. One of the class livewires.



### THOMAS F. SCHWARTZ

It is a great delight to his fellow E.E.'s to watch Tom wire a circuit. His trumpet, ham radio, and the Thursday Dance Club sessions are his favorite extra-curricular activities.

### ARTHUR SLOAN

The only man to accomplish anything around ME lab, Artie, an LSK man, is truly the ME's Apollo. He'll argue with you and then quietly prove you're all wet, in a voice that's the joy of the Glee Club.



## HERMAN SOIFER

Personable and witty, his engaging chatter holds even deaf-mutes speechless. A talented engineer, his versatility is shown by his ivory tickling for the Glee Club.

## MEYER STEINBERG

"Riese" was a constant source of worry to us. We were never able to understand how his frail frame could support him in face of the volume of work to which we were subjected.

## HOWARD SUTHERLAND

Howie is one of the strong silent men who is an engineer's engineer, so much so as to rate an appointment to MAO. His studies, however, don't interfere with his great love for skiing.

## JAMES JOHN TRIER

Jim is a cheerful sort—that is, until his face acquires that martyr-like look, when he has to solve a toughie. However, he solves these same problems with the capability of a real M.E.

## JOSEPH C. UNGERER

Joe is one of the vanishing Americans. He is sixth year night C.E. He never has enough time to do all the things he'd like to. His ambition is to get eight hours sleep daily.

## FRANK L. VISENTIN

Frank is the strong silent type—at any rate, he's silent. But when he opens his mouth—watch out. The fact that he isn't known much about the school is probably due to his quiet personality.

## JACK YOGMAN

Jack, a Bayonne, N. J., man, is one of those rare birds who can sit in class without saying a word night after night and still know what is going on.

## ARTHUR L. ZIGAS

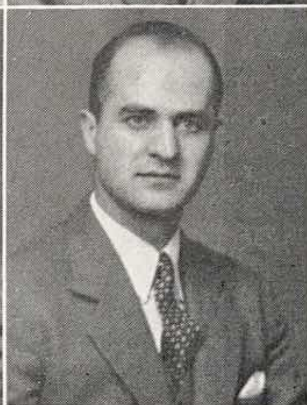
Where is there a man that does not respect our boy Zigas? As high god of the ME's and president of the ASME, he is the focal point of all major activities.

## SEYMOUR ZUBKOFF

One of the smarter boys, Chancellor of MAO, president of the ASCE, and former business manager of the Pioneer, he spends his spare time taking civil engineering courses.

## HANNA ADLER

A member of the fencing club, gym and swimming class, member of therapy group serving at the Halloran Hospital, and the course on Post-War Psychology, Hanna is a terrifically ambitious person.







### HERMAN GOUSTIN

Herman is a one-man show in class and on the stage. He's admired for every facet of his personality, as painter, actor, producer, writer and critic.



### PEARL GUTMAN

Pearl is as lovely as a gem. Student by day, teacher by night, hard-working, fun-loving, good-natured. Pearl is one of C. U.'s dramatic stars.



### FLORENCE HABERMAN

Florence commutes from Jersey City, has a soft spot in her heart for Marines, textile design and painting. She was Vice-President of the Sophomore class.



### RUTH HAMBURGER

If Ruth leads the advertising field as well as she led the C. U. cheering section in 41-42, she will have little time for her favorite sport of fishing.



### MADELINE HARRIS

Madeline has come to Cooper from a far-away land—Stamford, Connecticut. A member of the Industrial Design class, her sense of humor is irrepressible.



### PHYLLIS HOFFZIMER

Phyllis is one girl who has definite tastes about things. She likes homework, bike riding, dancing; hates hats, corn (on or off) and conceited men. She wants to travel some day.



### SUSANNA JAFFE

Suzy is one of those individuals who have a terrific zest for life and a love for an Army Sergeant. She is the stage manager of the Dramatic Club.



### LUCY H. JASINSKA

Lucy is one of the hard-working girls in the Industrial Design section. One of Jersey City's contributions to the student body, she is one of the most conscientious students in the class.



### CHARLES A. JERABEK

Charlie is usually so wrapped up in his thespian activities with the Dramatic Club that he cannot be found in class. One of the great mysteries of the year is how he gets his hair to stand up in front.



### VIRGINIA KABOOLIAN

Virginia is doing her part for the war effort as a radio inspector for the Signal Corps. Her tastes vary from Pistol Packin' Mamma to Beethoven.



### EVELYN KEITZ

Eve is our Class Secretary, fashion student and member of Natl. Honor Society. One of the engaged girls in school, she designs most of those swell sweaters she wears.

### NATALIE LANDAU

Nat's interests are Harvey, Harvey, Advertising and Harvey. Vice-President of the Jr. Class, Dramatic Club, Cable, the '42 Stag and Doe Dance—where she met HIM. She sits in Engagement Row.

### MARIAN LANDAUER

Marian is a quiet and sincere member of our class, devoting all her energy to the pursuit of the arts.

### ANNA LEBENSON

Anna loves Cooper, advertising, dancing and engineers—particularly Murray. She is a member of the Engagement Row, is always ready to smile and has a wonderful faculty for enjoying life.

### DEBORAH LEFKOVE

This cute little dish from Jersey causes a minor flurry every morning when she gets on the ferry. Early morning commuters don't often see such pretty girls.

### BRUNA LOCATTI

Bruna's best pal is Emily, and the two are usually seen together. She is dark, unassuming, quiet, and smart as anything—in fact, she gets "A's"!

### SHIRLEY LOWENTHAL

Shirley's particular loves are Ray, Advertising and Ray. She is a member of the Poster Squad, Dance Club, Cable and Engagement Row. She's engaged, she's lovely, she uses Pond's! !

### DOROTHY MAROOTIAN

Quiet and reserved, Dot will usually pick an unobtrusive corner for herself to dabble away at her canvas. When she emerges, the results are pretty good.

### LILLIAN MIKENAS

Lil is one of the more talented members of the Night Art School. She won first prize in "Mademoiselle" Design for a Living contest and ran off with \$25 in the neckwear design contest at C. U.

### JOSEPHINE MONTELBANO

Josephine is a dark, quiet, industrious girl whose interests at Cooper are Fashions and having a snack at Adler's. She was president of the Newman Club.





### SHIRLEY MORRIS

Shirley is one of those Fine Arts students who appreciate black mesh stockings, creativeness in wearing apparel, Marianne, Professor Dowden and Andy—especially Andy.

### EVELYN M. MUSSEHL

"Evie," our class Treasurer, is one of the mainstays of McCall's Adv. Dept. Simply nuts about dancing, skiing. Her ambition? Five (5) offspring. Wow!

### EMILY NELLIGAN

A member of the Decorative Art Section, Emily is the leader of the Nelligan tribe and is one of the budding geniuses of the class.

### RUTH NEUMANN

Ruth came back to C. U. to major in advertising so that when her pilot husband comes home she can support him in the style to which the Army Air Corps accustomed him.

### LOUISE PODOLSKY

Louise, in spite of her active interest in what is going on currently in the news, manages to more than keep her head above water in her studies.

### JUDITH REEN

Judy is a career girl at heart with intentions of setting afire the advertising field unless, of course, the Marines land. She is Vice-President of the 4th year class.

### SHIRLEY RICH

Shirley is one of those ambitious people who devote much time to school and men. She was the President of the 2nd and 3rd year class, and of the Student Council. Silver "C," Gold "C" and a million other activities.

### MARIAN SALINGER

Marian and Shirley are bosom pals, in fact they almost go steady. She loves bright colors—especially magenta, talks in her sleep and has a secret love for Professor Shaw.

### H. ELIZABETH SHARP

Betty hails from N. J., has the job (?) of Sec'y to the 4th year class and keeping Spence from slaying all and sundry. Ambition is to have a puppy and a station wagon.

### JEANETTE SHATZKES

Jeanette is one of the quieter members of the Decorative Arts course. She is very serious about her designing and her ambition is to own an island.







### BEVERLY LORRAINE SHEARER

Bevie is a Fine Arts student who is working hard at it. Petite, popular and a grand girl, she has been making the male teachers in school happy for a long time.

### MARJORIE E. SPENCE

Marje thanks C. U. for a fine education, many friends, and a wonderful husband to be. Pres. of 4th year Day Art, Chairman of A. P. 41-42, Capt. of Fencing Team 41-42.



### EVA STEIN

Eva went to C. U. for three years before she discovered that there was an engineering school. She dreams of setting up housekeeping in the Hewitt Building for the next three years.

### PATRICIA H. STEWART

Hard-working and conscientious, Pat has won renown around Cooper as a capable architect. Some of her creations put Bel-Geddes to shame.



### PHYLLIS V. WALTERS

Phyllis is one of the hard-working girls in the Architecture section in the Day School. Her persistence, coupled with her acrid wit, have endeared her to her fellow classmates.

### MILDRED WEISMAN

Any Friday night in the Pioneer office, you can find Millie hanging around just doing nothing. She just loves kibitzing with Engineers.



### MILTON ALPERN

Milt was the President of the Sophomore class till he became disgusted and joined the A. S. C. E. Usually co-operative, he made up a noisy 20 per cent of the transit packin' C.E. class.

### LESLIE BERND

Les has more uncorrelated data about his world than anyone else. His repertoire varies from opera to telescope grinding. His accent is a constant amazement to his friends, as he is a native New Yorker.



### HERBERT BRODY

Herb enjoys the position of being Prof. Brumfield's pet—peeve. The man to blame if anything in the experiment goes wrong is Herb. He is an officer of the Lunchroom and Elections Committees.

### HARRY BUIS

Quiet, hard-working, and for some unaccountable reason, always right, Harry has on more than one occasion been accused of being infallible. His one obsession in life is to design machines.





### LESTER COHEN

Les is a quiet Ch.E. who says little and does a lot. Les, a member of the AIChE, finds his favorite sports in tennis, handball and the Brooklyn Dodgers.

### MURRAY CRANDELL

For a fellow who grew up in Brooklyn, Mur is sure to make us proud to say that "We knew him when." A member of M. A. O. and the A. S. C. E., he has blazed an enviable trail at Cooper.



### WALTER DASKIN

Walt is a fellow who does a good job as chairman of the Lunchroom Committee and secretary of the Elections Committee. A guy who gets along with everybody, his chief appeal is the automobile.

### HENRY DOMBROWSKI

Henry is the only Ch.E. who can read a burette to four decimal places. He belongs to the AIChE, Cable Pioneer and the German Club.



### MORTON FELLMAN

Morton did not want to be drafted because he knew the C.E.'s would miss him from the labs. Active in many Cooper phases Mort made an enviable reputation.

### SHELDON GIRSCH

Sheldon is the longitudinally taller half of the talkative Girsch-Landauer combination. A member of the Pioneer staff and the AIEE, he claims to be the fastest slide rule pusher in Cooper.



### JAY GOLDIN

Although a Ch.E. and a member of the Pioneer and the Cable, Jay still sees at least two movies per week. He is a member of the AIChE and the German Club.

### DANIEL HYMAN

Danny is a whiz at everything he undertakes. A member of LSK and the AIChE, he is the editor of the yearbook and possessor of quite a sense of humor.



### ARTHUR K. INGBERMAN

Artie is one of the Ch.E.'s outstanding "characters," for he spends his time investigating electronic theories. A. I. is a member of LSK, the AIChE and the Math Club.

### ARTHUR H. KLEIN

Arthur H. Klein, a Ch.E. of true "character," is feature editor of the Pioneer, Secretary of the A. A. and a member of the AIChE and the Rifle Club.



### ROBERT KLINT

Vice-President of the ASME, and of his class, holder of a Schweinberg, this very versatile fellow stays up all night on weekdays paying for those beautiful weekends.

### FRANK L. KONIGES

It behooves you to look up our boy Flash who is the quintessence of all that is good. When we last saw him, this frat man was still working with a high temperature (18,000° F).

### WALTER LANDAUER

Walter, also known as "Bess" because of his interest in Bessel functions, is the latitudinally wider half of the Girsch-Landauer combination. Co-editor of the Pioneer, member of MAO and Lambda Tau.

### LAWRENCE LEVY

"Efficiency expert" Levy sometimes used to co-operate with the rest of the C.E.'s. Always good for a laugh (on him), he impressed us ignoble transients as one who "could take it."

### HOWARD MILLER

Howie, one of our star athletes, is the champion roller skater of the school. Secretary of ODP and perennial treasurer of the AIEE, he has shown an outstanding ability to shoulder responsibility.

### LEON NEMEREVER

A man of mathematics and chess, Leo can often be seen around the school, pondering over a partial differential equation or a queen's bishop's gambit.

### WILLIAM PEPPER

"Pep" started Cooper with a bang—winning a contest sponsored by the Math Club. Since then, in addition to his schoolwork, he has been bursting thru the Pioneer and the AIEE.

### IRWIN PFEFFER

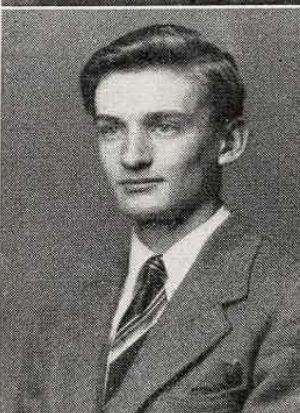
Outstanding scholar of his class, Irwin is also a star ping-pong player. His untiring energy overcame all odds, even art school belles. He is a member of MAO, the AIEE, and the Math Club.

### NORMA E. RANCKEN

Norma, the pride and joy of the M.E. class, is the reason it had to be addressed as "Lady and Gentlemen." Her bright disposition has kept the M.E.'s going during rough times.

### SEYMOUR RANKOWITZ

Seymour, the Jitterbug King of his class, is the indispensable right hand man of the Pfeffer-Rankowitz team. He is also a member of the AIEE.







### ROBERT M. SACHERER

Bob has the unconscious ability to ask questions on even the most obvious topics. He is an AIChE member and wields a mean ping-pong racquet.

### DOMINIC SANTOGROSSI

Bridge playing and Beethoven are the two B's which intrigue Dom. An ODP Frater, he is potentially the only E.E. in Cooper history capable of taking both the Power and Communications courses.



### STANLEY SELTZER

Stan seems to create that authoritative impression so characteristic of an engineer. In addition to the Math Club, he is enrolled in the AIChE.

### ABRAHAM L. STERLING

During his stay at Cooper "Al" got more sleep than any of the other Civils. His best marks were in Track. He excelled in the three B's and Mairzy Doats.



### JERZY SZMOJSZ

Jerzy "you-pronounce-it" Szmojsz is always ready to oblige an instructor with a question. A member of MAO, and the AIEE, he is also the President of the Math Club.

### SOL TANNE

Sol, "Brain and Brawn," is a member of both AIEE and LSK. Most people are very much surprised to find that the strongest fellow in school is one of the most intelligent.



### MELVIN TIERMAN

Mel is one Ch.E. who wouldn't regret being unable to translate Beilstein. His major interest lies in plant development work, the AIChE and the Math Club.

### ROBERT WHITE

Bob is one of the best liked fellows around these parts. Very active in school affairs, his personality is marked by his dry sense of humor and his ever-ready smile.



### I. EZRA ZAND

I. Ezra I. Zand, better known as "Dale" or "Art School" Zand, is co-editor of the Pioneer, Vice-Chairman of the AIEE, chancellor of Lambda Tau, and a member of the debating team.





## A C T I V I T I E S P L A N

So you want to know about the trials and troubles of the Activities Plan? Most of them are known to but a few people around school.

In the Spring of 1943 Mary Briggs and Morton Fellman were elected and appointed Chairman and Treasurer, respectively, of the Activities Plan Committee. Up to that time the Plan had been inactive for a year due to the lack of interest and the unpredictable registration of students. Late in September, when the Committee returned to school, they put their heads together and decided that a plan could be worked out for those students still left in school. Everyone realized that the A. P. was badly needed, after being without it for a full year.

The budget was planned on a much smaller scale than ever before—something was better than nothing! School spirit and activities must prevail, war or no war. After running into many snags, such as the lowering of the quota of pledges to the very least amount and having a workable budget that assured a CABLE, the plan was finally put into action. In short time the minimum number of pledges was received and paid for. With that accomplished, the CABLE and the PIONEER staffs and the Annual Dance Committee could go to work immediately. There was beginning to be some of that old noisy spirit of the other years at work again on the first floor.

After a year of inactivity it was thought quite impossible to revive the Activities Plan. Thanks to a few students who helped the Committee, namely Marion Craig, Shunya, Harold Goldberg, Morris Ojalvo and several others, the many benefits of the organization were realized for the student body.

Well! We did it! It required a lot of hard work, persistence and perseverance to make the idea of previous years work.



# S T U D E N T C O U N C I L



Top: M. Paszkewich, R. Schwartz, Treasurer. Bottom: S. Rich, President, H. Daneman, Vice-President.

The Student Council opened its 1943-44 season confronted with the problem of completely reorganizing all extra-curricular activities.

The Council immediately appointed Shirley Rich as temporary chairman and set about the task of rebuilding all the organizations which had ceased functioning during the summer of 1943. From its inception in October, the Council was snowed under by a barrage of petitions for class constitutions and plans for club reorganization. By the end of 1943, the Council had attained its objective and was ready for greater tasks.

The biggest achievement of the year was the activation of the Activities Plan. In conjunction with the Pioneer Staff and other large organizations, the A. P. Committee, fostered by the Council, succeeded in its drive for membership. The Council members worked hard to attain this goal, but they feel that their time was well spent.

In order to raise revenue to carry on its affairs, the Council held a gala "Stag Meets Doe" Dance in the lunchroom. The dance proved to be the highlight of the social season. For the first time in the history of Cooper Union, an engineer was voted Queen of the Doe. Little Rose Mellman outshone all the Art School cuties.

Among the more serious of its activities was the direction of the International Students Day Assembly. Its purpose was to commemorate the burning of the books by the Nazis. Guest speakers were Irwin Goldman and Professor Lynch.

All is not work with the Council, for it can boast of its lighter side. Visitors are always impressed by President Shirley Rich's ability to carry on the business of the meetings in spite of Vice-President Herman Daneman's heckling, and Walter Landauer's cackling. No member of the Council can forget the reply by a visitor to one of plump Rubin Schwartz's famous three-hour filibusters. Awakening just as the Council's treasurer was concluding a speech, the anonymous visitor innocently queried, "Mr. Schwartz, what did you say?"

The Council members worked diligently all year and it is their hope that the student body will benefit by their accomplishments.



# I N T R A M U R A L S P O R T S

Varsity sports have been discontinued at the Cooper Union since June, 1942, and the main athletic activity of the 1943-1944 school year has been concentrated in intramural tournaments.

This year touch football was introduced for the first time and was an immediate success. Although only the four classes in the Day Engineering School participated, the competition was very keen except when the lowly frosh played.

The tournament started off slowly enough when the Juniors beat the Sophs, 18-6. The Sophs, with Lefkowitz throwing passes to Kuhlik, Rubin and sometimes to Nishizaka to baffle the opposition, actually led at the end of the first half, 6-0, but the Juniors showed their class in the second half by scoring three times to win, 18-6. The second contest saw the Juniors trounce the Frosh of Section 1, 50-0. Section 2 did a little better against the Juniors in the next game, losing by a score of 31-0. Section 2 lost again, this time to the Sophs, in a game which saw the Sophs score twice within the last two minutes of play to win, 19-6.

## **TOUCH FOOTBALL:**

Winners (Numerals)—Q8

1. Sherwood Scheim
2. John Casazza
3. Burt Rosenbloom
4. Sol Tanne
5. Howie Miller
6. Ken Petry
7. Dale Zand
8. Robert White
9. Herbert Brody

Managers (Minor "C")—Ross Corio, Murray Lefkowitz

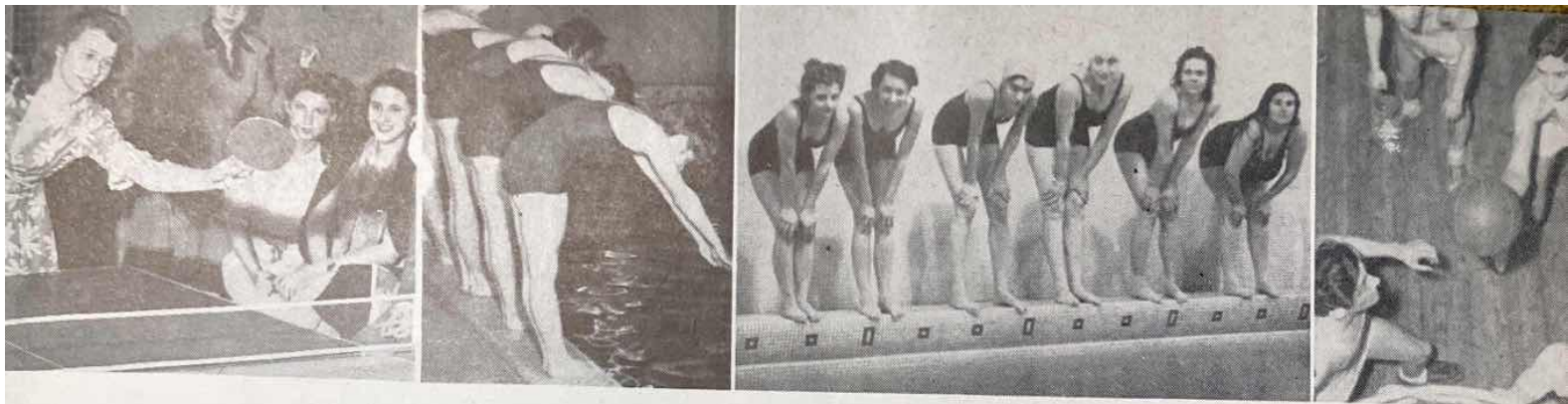
Managers (Minor "C")—Morris Ojalvo, Fred O'Driscoll

## **BASKETBALL:**

Winners (Numerals)—Q8

1. John Casazza
2. Sherwood Scheim
3. Ernest Rottman
4. Robert White
5. Henry Dombrowski
6. Ken Petry
7. Howie Miller
8. Sol Tanne





The fifth game saw the as yet untried Seniors bow to the Juniors, 29-12, in a battle for first place. The score cannot even begin to indicate the ferocity with which the game was played, but the Juniors, with Casazza throwing passes to Miller and Petry and with Brody, Rosenbloom and Tanne clearing the way on the ground, were just too much for the Seniors. A week later, the Seniors drew the Sophs for their opponents in a duel for second place. Although the Sophs scored first to lead 6-0 at the half, the Seniors came back in the third quarter to score a touchdown and convert the extra point to lead 7-6. The last quarter saw the Seniors run away with the game as they baffled the Sophs by end runs. The final score was 19-6. The Freshmen didn't think they had a chance against the Seniors in the next game; so they took the easy way out and forfeited the contest.

A playoff game was then scheduled between the Juniors and Seniors, the first and second place teams respectively. This game was even more aggressively played than their first encounter and again the Juniors triumphed, this time by a score of 18-6. And so the Juniors won the touch football championship, which they well deserved.

The basketball tournament saw another championship for the Juniors. They started their winning ways in the very first game of tournament, trouncing the Sophs, 62-34. With all their scoring the Juniors still failed to produce the game's high scorer—Welkowitz of the Sophs with 18 points. The next game was the closest of the tournament and saw the Seniors beat the Freshmen, 31-28. Then, in quick succession, the Artists were beaten 34-24 by the Sophs and 37-12 by the Frosh.

The fifth game decided the winner of the tournament as the Juniors and Seniors fought it out again, the lower classmen coming out on top, 47-37. After this game, the scoring bug hit both the Seniors and Juniors. The former vanquished the Art School, 81-24, and the Sophs, 83-28, while the latter overwhelmed the Frosh, 94-46, and the Artists, 73-32. The tournament wound up with the Freshmen beating the Sophs, 55-40.

Howie Miller of the Juniors was high scorer in this tournament with 86 points in four games and Morris Ojalvo was runner-up with 80 points in the same number of games. Undoubtedly the outstanding player was Fred O'Driscoll, captain of the Freshman team.

All this time "Professor"—er, "General"—Hollinger was holding his Senior Life-Saving course at the Lavanburg House and at the Church of All Nations swimming pools. The girls at Cooper were holding their weekly gym and pool activities and are to be complimented for going ahead on their own and getting the class together. Carry on, girls, carry on.





Top: S. Tanne, D. Weinblatt, J. Palamara, H. Mirels, F. O'Driscoll, E. Apfeldorf, S. Chanley. Bottom: R. White, H. Miller, R. Corio, M. Ojalvo, President, A. Sloan, S. Stomberg, S. Nishizaka.

## ATHLETIC ASSOCIATION

At the beginning of the school year, the following officers were elected for the Athletic Association: President—Morris Ojalvo; Vice-President—John Casazza; Secretary—Arthur Klein.

It was decided at the first meeting, held in October, that a touch tackle tournament would be an appropriate one with which to open the sports season. With Ross Corio and Murray Lefkowitz as managers, five teams from the Day Engineering School went through a gruelling, bone-crushing season highlighted by the two Junior-Senior games. The Juniors with a host of stars in Casazza, Miller, Petry, Brody, Rosenblum and Tanne were just unbeatable and ran away with top honors in touch football.

The basketball tournament, managed by Morris Ojalvo and Fred O'Driscoll, came next and saw an even tighter race between the Juniors and Seniors, the former being triumphant again. This tournament started off slowly in the matter of scoring, but in the last five games 556 points were poured through the hoop, setting a record for scoring in intramural basketball games. Howie Miller of the Juniors scored 34 points in a game against the Art School; he was later tied by Morris Ojalvo of the Seniors, who turned the trick against the Sophs. Besides Miller, the stars of the Junior basketball team included Tanne, Casazza, Petry and Scheim.

By March 1, 1944, both Vice-President Casazza and Secretary Klein were in the Armed Forces of the United States. It was then decided to form an Athletic Association Governing Board, with Morris Ojalvo as Chairman and consisting of one representative from each of the participating teams in the tournament, since this type of organization would be better able to conduct intramural tournaments than the one which was primarily set up to take care of varsity sports.

In conclusion, the Athletic Association would like to thank those lovely Art School co-eds who faithfully came to see the intra-mural games and the men of Cooper who participated in the A.A. Sports Program. With such people in Cooper Union, school spirit will never die.



# The Pioneer

As we approach the PIONEER office, K. Klein, of the destructive memory, is busy at the usual tasks, tearing down the PIONEER office. Terry Obermayer and Betty Morton are over in the corner keeping the staff happy. Greenberg approaches us cautiously: "Do you have any juicy items for the 'Snooper'?"

Into the office barges businessman Bob White. "Damn those Popovitches, they did it again. They forgot to print the PIONEER this week. Guess we'll have to put out two issues next week." You see, it never makes any difference. No work gets done.

Six-thirty, and still no work done. Walt Landauer and Dale Zand are trying hard to gather together enough copy to fill four pages.

"Hey, guys," squeals Dick Braun, "I'm hungry and I'm not waiting any longer. Let's go out and eat. No supper money. No!" Dick is always hungry.

"No you don't. Nobody leaves until at least half the stories are in!" shouts Goldberg. He thinks people will listen to him. They don't. They go out to eat.

Nothing has been done until eleven-thirty. Then the women on the staff go home. Promptly at that instant Manfred Jonas and Henry Hirsch run blazing into the office returning from their assignment to "Interview the man in the moon." They did it again.

Morris Ojalvo, our sports editor, comes in smiling. His team lost. But they put up a whale of a fight. And, sure enough the story is about the fight.

Jay Goldin is writing headlines. Mass Production. One per hour. For him that's too fast. Edna Lackritz and Dotty Schneider got their story in too. We wrote: "Dean Clark had nothing for us this week."

Some bright member of the staff suggests that there might be more typewriters locked up in the CABLE office. A foraging party is sent in to look for them. Nishizaka and Girsch always could climb well. And through it all Siggy Kei sits typing away at his pick-a-peck system.

Milton Levine comes in with a long look on his face. He has 150 words to write on the Student Council and there was no meeting. Unabashed he writes his story. The editors refuse it. He goes home. There was no meeting anyway.

And so it goes, week after week. What a paper; what a staff. What a rag...

—Printed by the Mimeograph Squad (not responsible for errors).



# T H E 1 9 4 4 C A B L E

"Where is my pencil? There isn't much time left—we have to finish this copy. Who can type? Where is my pencil?"

What strange noises are these? Who are the creatures that dare to make the corridors ring with their anguished cries? Why do these people tear aside the cloak of silence that has covered Room 114B for, lo, these many months? To the casual passerby these questions were impossible riddles. But to patrons of the arts and men of letters they lead to but one answer. The CABLE was back in business!

Until 1943, the CABLE had been published annually for over twenty years. The disturbing influences brought about by the national crisis prevented the publication of the 1943 CABLE. But this year, in spite of these conditions, the student body showed by its support of the Activities Plan that it wanted a CABLE. And so it began. . . .

The locale of the frenzied actions attendant to the production of the year-book was the CABLE office, located on one of the busiest corridors in the school. The passing parade was a never ending source of inspiration, especially to the male members of the staff.

A loud explosion usually marked the entrance of Paul Pistrack, the go-getting business manager. With some of the shrewdest financial juggling since the days of the robber barons he managed to build up the budget so that it could be seen with the naked eye. Stan Glaubach could usually be found under a pile of layouts, trying to figure out a way to fit the book together. Behind those feet at the desk was Milt Mollick, whose most outstanding trait was the ability to walk into any class at any time, disregard the instructor, and calmly proceed to make photographer's appointments. The two long, thin objects in the corner represented our photographic department. One of these objects was Herman, and the other was his tripod. Herman was the one with the cigar.

The final phase, the preparation of the copy, was even more hectic than the planning period that preceded it. Copy flew thick and fast; time was at a premium. The few good typewriters were beaten into submission by the helping hands of George Gudz, Eve Morgan, Dotty Schneider, Julie Cook, the quiet, self-effacing Claire Rosenman and many others.

In the midst of this unholy mess was Big Chief Lucius Beebe Dan, worrying about the situation in general.

But there was no need for worry. These people were carrying on one of the best traditions of the school. They were all helping to produce the CABLE.





## **SILVER C**

Shirley Rich  
Harold Goldberg  
Stanley Glaubach  
Morris Ojalvo  
Irwin Goldman  
Morton Fellman  
Mary Briggs  
Marjorie Spence

## **GOLD C**

Henry E. Cook  
John A. Casazza  
Thelma Sitzler  
Marion Craig  
Arthur H. Klein  
Seymour Zubkoff  
Daniel Hyman  
Arthur L. Zigas  
Paul Pistrack  
Walter Landauer  
Richard Braun  
Herman Daneman  
Abraham Karp  
Jeanne Ream  
Helen B. Lehto  
Dale Zand  
Robert White  
Robert Leff  
Seymour Levander  
Milton Mollick  
Charlotte Barber  
Jay Goldin  
Murray Greenberg  
Henry Dombrowski  
Natalie Landau  
Walter Daskin

# **H O N O R A W A R D S**

## **LAMBDA TAU**

Stanley Glaubach  
Murray Greenberg  
Arthur H. Klein

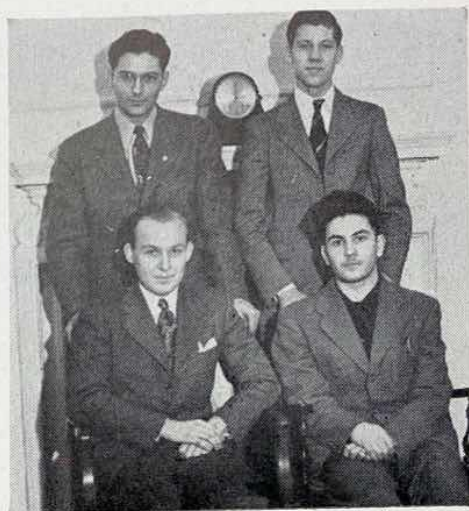
## **EX POST FACTO**

Daniel Hyman  
Paul Pistrack  
Stanley Glaubach  
Milton Mollick  
Herman Daneman



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## A. I. C. H. E. d a y



Top: I. Goldman, Secretary, H. Dombrowski, Treasurer. Bottom: K. Baczewski, President, A. Ingberman, Vice-President.

The Student Chapter of the American Institute of Chemical Engineers was founded at The Cooper Union in 1928. Its purpose, then as now, was to promote social relations between the chemical engineering students, and to present to the members the benefits of the experience of men in the field.

The first lecturer of the year, Dr. A. O. Gettler, city toxicologist, treated his favorite topic, "Chemistry in Crime Detection," with skill, and injected into his moribund subject enough humor to completely revitalize it.

Industry in action was observed at a field trip to the Jacob Ruppert Brewery. All the rushing about tired our men out. They therefore recouped their energy (and losses) by spending the latter part of the afternoon swigging beer (our beer is the free beer) glass unto glass unto glass.

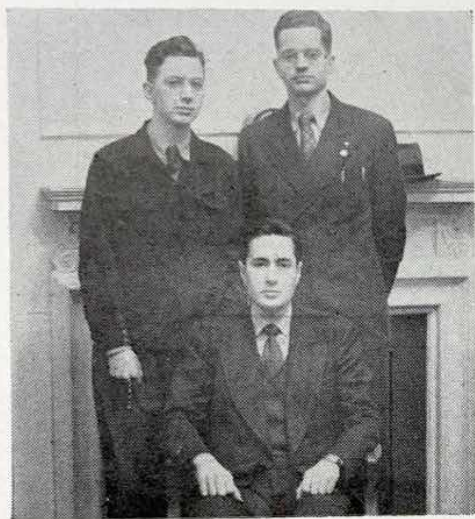
The other meetings were spent in technical discussions, and in viewing films on oil and plastics. At a joint meeting with the A. S. M. E., the technical problems inherent in a large-scale pipe-line installation were discussed in conjunction with the showing of the film, "The Big Inch."

The Freshman Reception, the high point of the Cooper social season, has its seventh annual presentation this year. This show is the only time the students can revenge themselves on the instructors for the wrongs they have suffered at their hands.



## A. S. M. E. d a y

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Top: G. Rothmaler, Treasurer and R. Klint, Vice-President. Seated: Arthur Zigas, President.

The activities of the 1943-1944 session of the Day Branch of the Cooper Union Chapter of the American Society of Mechanical Engineers got off to a good start after the Christmas Dinner for the class of '43. This dinner was the last big get-together before the 1943 class graduated in September. The newly elected officers were: Arthur L. Zigas, president; Robert V. Klint, vice-president; and Gustave Rothmaler, treasurer; with Professor Vopat as faculty adviser.

During the first quarter of the year, General Motors, Ford, and Allis-Chalmers motion pictures were shown. Established at these meetings were committees for the Freshman Reception and the class's own Annual Dinner to be held later in the year.

For the second quarter of the year the programs leaned toward student papers. Notable among these were Frank Koniges' talk on the theory behind gas turbines and Bob Klint's paper on the uses and production of high-speed machine tools.

On April 27, the society played host to the Metropolitan Section of the A. S. M. E., including such colleges as C. C. N. Y., N. Y. U., Columbia, Pratt, Brooklyn Polytech and Stevens. The program included an informal luncheon and the reading of papers by the students from the various colleges represented. The committee in charge of this function included the following: A. Zigas, R. Braun, H. Cook, B. Edelstein, A. Hollowell and A. Farley.

Just as the year was opened with a Christmas Dinner, all members are looking forward to closing the season with their own successful affair.



The school year opened with the Mechanical Engineers laboring under difficulties of long hours of work and stepped-up production. The early months of the school year were particularly marked by the departure of students to join the military forces. The Army Air Corps now claims the full time of Lt. "Jock" Berger, from the Sixth Year Power Option. When last heard of, "Jock" was assigned to a Ferry Command base in far-off India.

The Christmas holiday arrived with the adjustment of all the M.E.'s to the routine of working, attending classes, and doing school assignments, with eating and sleeping as spare time activities. More active participation in Society affairs was first characterized by the request and then demand for membership cards, Mechanical Engineering magazines and more meetings, and an Annual Dinner. The traditional methods of election resulted in the choice of Arthur J. Farley as President, Alfred F. Hallowell as Vice-President, Oscar Cole as Treasurer and Sava Sherr as Secretary. Mr. Salma, the Honorary Chairman, captained the squad that aspired to the difficult role of Activators.

On Saturday, March 18, 1944, a very successful Annual Dinner was held at the Tavern on the Green, in Central Park. This form of get-together represented a complete departure from the stag affairs of past years. Faculty and students alike were accompanied by the girl friend or wife. It was noticed that a goodly proportion of our members made their way to the dance floor and exercised long-dormant talents.

Late April saw Cooper Union host to Group III, comprising student branches of the ASME of Metropolitan colleges. Due to difficulties of transportation the parent Society had arranged to make the groups smaller than previous years. This arrangement actually made for greater interchange of ideas and fuller appreciation of mutual interests. The presentation of student papers was particularly impressive. The average paper represented a maturity of thought and breadth of technical vision that compared favorably with the best presentations of the past.

Preparations are now under way for a more informal type of Friday evening meeting. The popular request for sound motion pictures of current engineering interest will be met and the ASME looks forward to fuller enjoyment of the fruits of its labor.

As one of our guest speakers once said, "The branch is the students' vehicle for going the second mile, the mile of voluntary effort where men strive for excellence and may attain to the dignity and significance of a profession, which lies beyond the first mile of compulsion."



Top: R. King, F. Nelson, E. Neben, F. Krukiel, F. LaTour. Bottom: N. Hoglund, F. Saltz, A. Farley, W. Barron.

**A . S . M . E .**  
**n i g h t**





Standing: M. Alpern, Vice-President and W. Apfeldorf, Treasurer. Seated: S. Zubkoff, President, and S. Chanley, Secretary.

## A . S . C . E . d a y

Since the last issue of the Cable, the Cooper Union chapter of the American Society of Civil Engineers has passed through three phases of activity.

From July, 1942, the Society, under the leadership of Ben Nedbor, Walt Sittner, Ed Sliwinski and Roy Levy, sweated through four summer meetings and held a dinner. The meetings touched on the Panama Canal, Asphalt, Aerial Mapping and Welded Structures. The dinner was held in honor of Professor C. O. Roth and Mr. E. Ramberg, who were leaving Cooper for the wilds of New Jersey. This affair was the occasion for much unbending by the faculty members present.

The next phase of our activities, from February, 1943, to June, 1943, was under the leadership of Ed Sliwinski and Roy Levy. During this time, the members attending meetings became acquainted with expert points of view on Soil Mechanics and Factory Buildings. They also bolstered the Conference of Metropolitan Student Chapters at N.Y.U.

The third phase lasted from June, 1943, to December, 1943. We were quite low; no night school members during the summer, the impending graduation of the seniors and the uncertain draft status of the others made for a complicated situation. There were only fourteen members. No permanent officers were elected; Seymour Zubkoff assumed the duties of Acting Secretary. Through the assistance of Prof. Perez, who has since left, several movies on the manufacture and working of aluminum were shown.

On October 22, 1943, an organization meeting was held for the new quarter. Because of the unavoidably poor attendance of the night school, all the officers were day men: President Seymour Zubkoff, Vice-President Milton Alpern, Secretary Simeon Chanley and Treasurer Erwin Apfeldorf receive credit for the showing from then on. Realizing the difficulty of obtaining outside speakers because of their full-time occupation with the war effort, it was decided to have students give lectures with slides furnished by the A.S.C.E. Herman Soifer gave us some concrete information on the Grand Coulee Dam and Erwin Apfeldorf gave a flowing account of Mississippi River Flood Control. Later, the Chapter was very fortunate in getting Walter (S.O.) Sittner, a former society officer and recent Cooper grad, to tell us of his work in steam gauging with the U. S. Geological Survey.

In view of the fact that we have had to share many of our members with the U. S. Government, we think our showing has been very good—as good as any Society in the school—and we hope our Chapter's future will be just as bright.



# A. I. E. E.

## night and day

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### NIGHT

The night branch of the A.I.E.E., which was founded many years ago to further enrich the development of the potential engineer in his chosen field has, like other peace-time pursuits, been curtailed. The Society has as its primary purpose the self-expression of the student to develop poise and self-confidence before an audience so that he may fully transmit his problems and arguments to other engineers, and more so to men with no technical training whatsoever, later on in his engineering career. The engineer is not a combination of a walking handbook and slide rule expert, as many believe, but he is an individual trained to think technically and socially. That he plays an important part in modern society can be judged from his present role in the defense of his country. His peace-time purpose is just as important, but not publicized the way his war-time role is. It is to develop the student engineer so that he may be able to assume his social responsibilities more readily than he is asked to participate in student activities of A. I. E. E. His formal technical education is a valuable asset, but without a complete technical and liberal education the engineer becomes a tool for less qualified men to employ, whereas it is the engineer who should be the driving force. The student branch of A. I. E. E., as a small link in his education, gives the student engineer an opportunity to develop his technical and liberal backgrounds to help him assume his right place in society as a leader, and not as a subordinate.

The manpower demands of Selective Service have made inroads on the membership of the night branch with many of its members serving their country in the various branches of the armed forces. Industry, to fulfill its part in the war effort, has made further demands on the time of those remaining members. Time always has been a major factor in the night engineering student's education, and today time assumes a more important position.

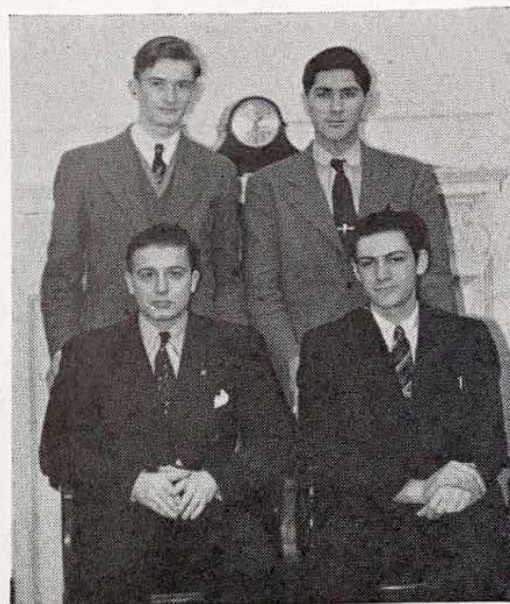
However, in spite of these obstacles, the night branch of the A. I. E. E. still functions as an organization with its members participating in the war effort today,



Standing: E. Smith, Treasurer, and W. Thompson, Vice-President. Seated: J. Coughlin, President and S. Meyers, Secretary.



Standing: H. Miller, Treasurer, and T. Schwartz, Secretary. Seated: S. Levander, President, and I. Zand, Vice-President.



and with its eye to the future when it can return to its former position in the student engineer's education.

## DAY

A new spirit of activity has marked the present session of the student branch of the American Institute of Electrical Engineers at The Cooper Union. The Society, realizing that the student has had little or no experience in organizing technical material and presenting oral reports in a clear and concise form, has sought to sponsor a Student Paper Contest. It was hoped that the contest would be doubly beneficial, since both speaker and audience would be technically enriched by the presentation of new and interesting topics; topics which the lack of time prevented from appearing in the curriculum. Probably of even greater value was the gaining of experience and confidence by the participants when presenting their ideas to a group not entirely familiar with the speaker's subject. The value of such work in speaking and explaining to others cannot be overemphasized.

The student and faculty response was most heartening. There were so many interested in delivering papers that it was decided to conduct the contest under the official A.I.E.E. rules, that is, twenty to thirty minute talks by two speakers at each session. Cash awards were made. Judging the contest were Mr. Hostetter, the faculty adviser of the Day branch, Prof. Towle, Prof. Nudd and Prof. Sherman.

A few of the topics under discussion were: "DC Transmission," by Joseph Diamond; "The Schwartz-Christoffel Transformation," by Jerzy Szmojsz; Thomas Schwartz' discussion of "Mechanical and Electrical Production of Television Images"; and "Electrical Analysis of Mechanical Vibration Problems," by Bernard Levine.

With this renewed interest so strongly revealing the importance of the Society as a factor in the life of the students, it is hoped that the students who are remaining will take steps to insure the growth and continued success of the Society and that they will realize the need for such an organization as a vital part of the Cooper Union Day Engineers' activities.





Standing: S. Noble and W. Christ. Seated:  
J. Rofman and E. Fitzpatrick.

## A L U M N I

## A S S O C I A T I O N

The Alumni Association is in its fourth year of confederation, as it is a coalition of all the previous sectional associations of alumni of the various classes of the Cooper Union Institute. We proudly display the splendid progress we have so rapidly made. From an inauspicious start of representatives in the Student and Graduates Room in the Hewitt building, to our present club house at 313 West 53rd Street in Manhattan many difficulties have been overcome and obstacles surmounted.

We are now pointed along the road of progress, educational and social development of our membership and of The Cooper Union and its student body.

Towards these aims we are ever mindful of the ideals of the Founder and all our undertakings are planned with them in view.

We have established an excellent school for graduate engineers in our club house for the purpose of assisting them in obtaining their professional licenses. The chairman of this committee is Mr. Joseph Rofman, an experienced engineer of the class of 1928.

We have an exceedingly fine monthly lecture program which many alumni attend and at which alumni prominent in their particular fields discuss the newest phases, theories and practices used in present day engineering, chemistry and architecture.



The chairman of the Lectures Committee is Mr. Charles Goodman, a well established engineer of the class of 1905.

Our employment service has been firmly established with many engineering and manufacturing companies so that post-war activity will find us prepared to place our members in their chosen fields of endeavor. This important work is handled by our competent executive secretary, Miss Mildred Zadek, who has made a study of employment and placement.

These are only three of the many services offered to the Alumni of The Cooper Union through the Alumni Association.

The facilities at the club house include a game room and lounge, besides presenting a mailing address in New York for those of our members who would find it a convenience.

It is a far cry from the activities of the individual societies of the past to the planned programs of our present association. The individual societies met on occasion for social purposes and to transact their business, whereas our association has education and social welfare as part of a well formulated program.

It is inevitable that with the growth of our organization and our program expansion the need for individual activity in assisting us in the furtherance of our aims becomes pronounced.

We therefore invite the new graduates to join us with the assurance that they will enjoy the exhilaration of knowing that their service to the Alumni Association will be greatly appreciated, and with the further assurance that they themselves will enhance their own mode of living by the contacts they form from the Alumni Association in friendship and knowledge.

## EXECUTIVES

Edward B. Fitzpatrick, '24	President
Joseph Rofman, '28	1st Vice-President
S. Martin Noble, '35	2nd Vice-President
June R. Ptacek, '41	Editor
Walter O. Christ, '42	Treasurer
John J. Coffey, '42	Secretary
Sol. L. Meiselman, '43	Ass't Secretary
Miss Mildred A. Zadek	Executive Secretary



## **SOCII HONORARE**

Dr. Edwin S. Burdell

Prof. Norman L. Towle

## **SOCII IN FACULTATE**

Prof. Frederic H. Miller

Emanuel A. Salma

William J. O'Donnel

William A. Vopat

Donald W. Deed

Philip F. Hagerty

Louis Brooks

# **M U   A L P H A   O M I C R O N**

## **SOCII IN COLLEGIO**

Klemens C. Baczewski

Gregory C. Banikiotes

Walter A. Baron

Maurice Brooks

Murray Crandell

Sidney Davis

Joseph M. Diamond

Joseph Feinstein

Harold S. Goldberg

Murray Hanig

Nils O. Hoglund

Albert F. Hollowell

Reno C. King

Fred P. Krukiel

Walter E. Landauer

Seymour S. Levander

Wels E. Madsen

Leslie Nozroviczky

Hector A. Pecorini

Irwin Pfeffer

Joseph Reed

Fred Saltz

Edward J. Smith

Harald J. Sutherland

Jerzy Szmojsz

John N. Yunker

Seymour Zubkoff



Mu Alpha Omicron, Honor Society of The Cooper Union School of Engineering, was organized in 1926 to afford recognition to engineering students of outstanding scholastic ability who possessed such integrity of character and breadth of vision as commanded the respect of their associates; and to render, within its capabilities, such service to The Cooper Union and its student body as may be deemed fitting to an Honor Society. Coincident with the recognition of the evening courses of the School of Engineering, in 1940, the constitution was revised to embrace both day and evening students on the same basis. The increase in membership resulting from the admission of qualified evening students enabled the fraternity to broaden the scope of its activities, and to function more effectively in its administration.

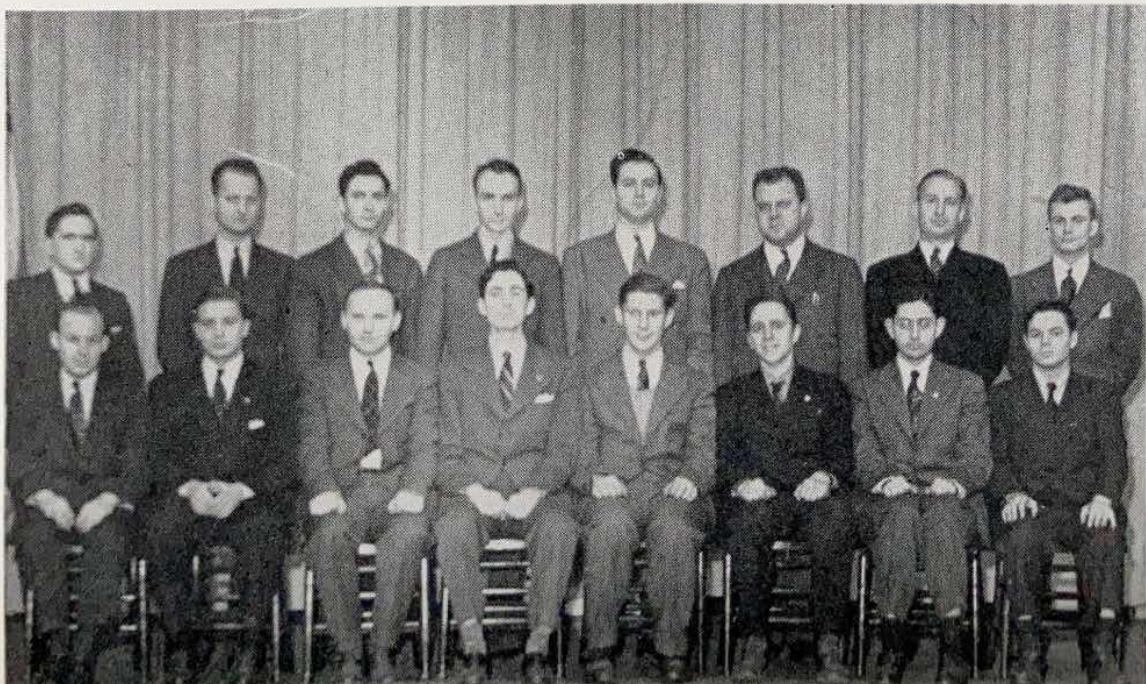
The most important service fostered by the MAO is its summer tutoring classes, held for those students wishing aid in preparing for fall re-examinations. Due to the decrease in enrollment, there were fewer applicants for the tutoring classes last summer than in previous years. However, instruction was given in five subjects. This succesful activity will be continued in the future, with aid in more subjects.

Following the graduation of many of its brothers in September, 1943, MAO elected its new officers. The officers for the present year were: Seymour Zubkoff, Chancellor, Fred Krukiel, Vice-Chancellor, Harold Goldberg, Scrivener, and Seymour Levander, Bursar. The membership, at the beginning of the year, also included Klemens Baczewski, Walter Barron, Leslie Nozdroviczky, and Hector Pecorini. The election of nineteen new members from the day and evening courses, in December, swelled the ranks of MAO to twenty-seven.

The highlight of the year was the impressive Induction and Reunion Dinner held at the Fifth Avenue Hotel. Extremely gratifying to the Alpha members and to Professor Miller, faculty advisor of MAO, was the fact that in spite of the war conditions a large number of Beta members were able to attend. Guests of honor at the dinner were Mr. Charles Spencer, President of Tau Beta Pi, national honorary engineering fraternity, Dr. Edwin S. Burdell, and Dean George F. Bateman.

MAO is at present outlining an ambitious program for the future. And its present officers are confident that the remaining brothers will continue to carry out its traditions and ideals.

Top: W. Landauer, W. Barron, I. Pfeffer, H. Smith, M. Brooks, N. Hoaglund, R. King, F. Saltz. Bottom: K. Baczewski, S. Levander, F. Krukiel, S. Zubkoff, H. Goldberg, S. Davis, J. Feinstein, J. Diamond.





## MASTERS COUNCIL

GRAND MASTER	—	C. HUBERT
DEPUTY GRAND		
MASTER	—	P. DE MATTIES
RECORDER	—	F. DIEMER
EXCHEQUER	—	J. SWATKO
PRELATE	—	C. REIN
STEWARD	—	H. EGAN
WARDEN	—	W. SHACHMUT
CHANCELLOR	—	O. JOHANESEN
SGT. AT ARMS	—	J. GUARRICHI

## P H I S I G M A O M E G A

### ACTIVE BROTHERS

F. P. DRECHSLER	BROTHERS IN SERVICE	J. KRUGES
G. GUCKER		G. SMITH
E. HENRICH	J. CAMPAGLIA	G. ZAHARAKIS
F. KRUKIEL	F. DELVERS	R. JAMES
A. O'LENICK	R. ERNST	S. KATZMARSKI
P. SCHERBER	T. HERNIDA	A. PALMER
J. TRIER	W. HERRICK	J. KING
F. VISENTIN	A. HIGBEE	F. VANEK
H. GEISLER	J. IARUSSI	P. POVEROMO
R. GILL	J. JOHL	F. COSMEN
M. ZENK		J. ROULETT JR.
J. FALK		

Phi Sigma Omega was founded in 1926 by a group of students of The Cooper Union Night School of Engineering. Since that time it has grown to have the largest membership of any fraternity in The Cooper Union. The structure whose foundation was laid so well has expanded until it is now a national fraternity with chapters at New York University, Newark College and Pratt Institute.

Phi Sigma Omega has many social functions during the year which not only allow the student to forget his worries and school work but tend to form a closer bond among the men by giving them a chance to meet each other away from the class room. Among the social activities are annual spring and fall dances. In addition to these are numerous parties held at the fraternity rooms throughout the year.

The brothers find excellent use for the fraternity house at 31 East Seventh Street as a community den wherein they may gather to relax or to attempt to understand some of the "simpler" assignments received at The Cooper Union. It is at these gatherings that the true spirit of friendliness and helpfulness is shown at its best.

All brothers of the Alpha Chapter of P S O feel that their membership in the fraternity has made The Cooper Union a home to them rather than a glorified encyclopedia from which they may ferret out knowledge.



# L A M B D A S I G M A K A P P A

## FACULTY ADVISOR AND HONORARY BROTHER

Professor J. M. Peterson

## IN COLLEGIO

Irwin Goldman, Ruler  
Daniel Hyman, Vice-Ruler  
Seymour Levander, Treasurer  
Herman Daneman, Secretary  
Leon Chavkin  
Leonard Galanter  
George Gudz  
Arthur Ingberman  
Arthur Sloan  
Sol Tanne

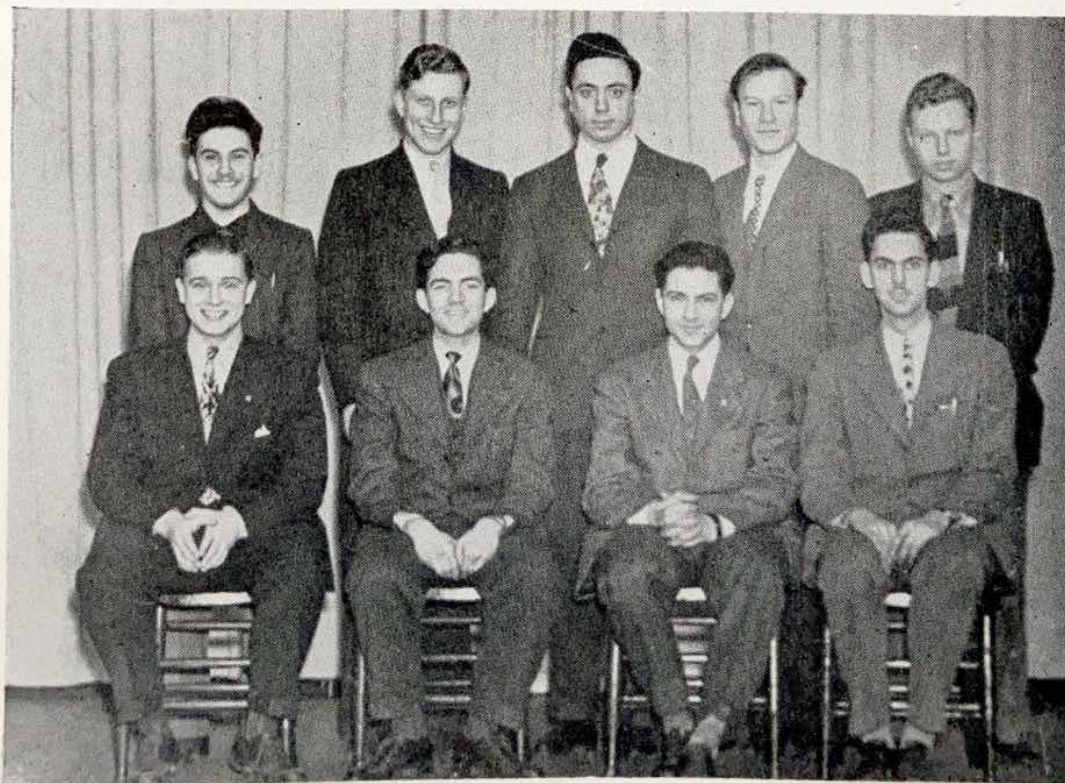
In 1905 a group of students of The Cooper Union founded Lambda Sigma Kappa in order to weld themselves into an everlasting brotherhood. Following tradition, the fraternity will continue to foster and inspire scholarship, hand in hand with character and fraternalism. Together with non-sectarianism, these characteristics form the basis of the Fraternal Code. The high tenor of this code has been preserved and maintained by inducting new members only after a rigorous and thorough pledgship has proven them worthy. The fruits of this practice are evidenced by the enviable record established by the brothers of Lambda Sigma Kappa in all phases of activity.

## IN SERVICIO

Lt. Raphael Bracca  
Pvt. Frederick Verity  
Pvt. Herman Amster  
A.S. Harold Katz  
Cpl. Julian Hirsch  
Pvt. Murry Lefkowitz  
Pvt. Larry Rubin  
A.S. John Casazza

## IN FACULTATE

Prof. Rommele  
Prof. Merrit  
Prof. Vopat  
Prof. Salma  
Mr. Di Giovanni



Top: A. Ingberman, A. Sloan, S. Tanne, G. Gudz, L. Chavkin. Bottom: S. Levander, D. Hyman, I. Goldman, H. Daneman.



## CHAPTERS

Alpha—Cooper Union Night

Beta—Brooklyn Polytech

Gamma—N. Y. U. Commerce

Delta—Cooper Union Day Tech.

Epsilon—Brooklyn College

# OMEGA DELTA PHI

In order to provide a social outlet for Cooper Union students, Omega Delta Phi fraternity was organized in 1903 by an enterprising group of young men. Today, on a limited scale due to the war, the fraternity still performs this social function. The rooms, conveniently located a block from The Cooper Union, provide an excellent place to meet at lunch-time and after school for talk or a game of ping-pong, pool, chess, checkers or the inevitable bridge.

The social activities range from stag parties and smokers to festive dances and similar parties. The fraternity is a place where casual school acquaintanceships are cemented into lasting friendships. Thus it performs a duty above and beyond providing mere recreation.

The fraternity has felt a certain responsibility in acquainting freshmen with the fraternal ideals. New men are introduced to the fraternity at a special reception held in their honor. After being pledged, the new man is made to feel at home socially by means of dancing classes and the annual pledge party, thus producing a more well-rounded education.

The fraternity offers a welcome to anyone seeking friends and good fellowship. All can find them there. The door is always open.

Top: F. Walsh, F. Ron, R. Klint, R. Horky, F. Miner, D. Santogrossi. Bottom: H. Miller, H. Cook, C. Alverson, F. Koniges.





## **FRATRES IN FACULTATE**

Prof. Kenneth E. Lofgren  
Charles E. Shaffner

Prof. Raymond J. Kunz  
Otto C. Puller

## **FRATRES IN COLLEGIO**

Henry E. Cook Jr.  
Charles T. Alverson Jr.  
Frank L. Koniges  
Dominic J. Santogrossi  
Robert U. Klint  
Howard E. Miller  
J. Kenneth Petry  
Frank W. Miner, Jr.  
Frank E. Rom  
Raymond H. Hocky  
Charles A. Erway  
Robert D. Rice  
Joseph E. Sieffert

## **FRATRES IN SERVICIO**

John J. Smith  
Arthur E. Kilman  
Byron E. Ledgerwood  
Frederick C. Urban  
John Schmidt  
John Barth  
Robert J. Fredericks  
Panos Galidas  
Thomas Lonergan

William Schmidt  
Edward J. Church  
Charles Merz  
Walter Ludwick  
George Rolly  
Frederick Horn  
Walter Koroshetz  
Bernard McFaren  
Sherman Glass  
Francis J. Walsh  
Frank Lefeter  
John Harrington  
George Everson  
John Nichols  
Stephen Einig  
Charles C. Damm  
Craig M. Garretson  
Donald F. Butler  
William Moore  
Jack Merg  
Joseph Fegan  
Emidio Peluso  
John J. Fulleylove  
Clifford Peterson  
Joseph Urban



# NEWMAN CLUB

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Standing: K. Baczewski, Treasurer. Seated: J. Pisicoli, Secretary, and J. Montelbano, President.

The Newman Club has become a recognized organization of Catholic culture and fellowship, its activities being religious, educational and social. Since the founding of the first Club on the campus of the University of Pennsylvania in 1893, over 250 such organizations have been formed in the United States, its Territories and Canada. All are joined together under the Newman Club Federation.

The work of the national body is carried on by the provinces in various sections of the country. The Cooper Union Newman Club is a member of the New York Province and is by far the most active one of the Federation.

The Club's activities stem from the informal monthly meetings to the biweekly discussion hours, monthly communion breakfasts, skating parties dances and bowling. The highlight of the year was the Annual Convention of the Newman Clubs of the New York Province.

The outstanding addition to the Club this year was our new Chaplain, Father Hunt. No one of the members has any doubt but that Father Martin, now in the Army, has an excellent successor.

The Club has become to its members a place to have good, wholesome fun, while deepening mere acquaintanceships into lasting friendships.



# L A M B D A T A U

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Standing: M. Greenberg, I. Zand, A. Klein, W. Landauer. Seated: S. Zubkoff, M. Ojalvo, H. Goldberg, R. Braun.

## MEMBERS

Harold Goldberg, Chancellor  
 Morris Ojalvo, Vice-Chancellor  
 Seymour Zubkoff, Exchequer  
 Richard Braun, Recorder  
 Walter Landauer  
 Dale Zand  
 Arthur Klein  
 Murray Greenberg  
 Stanley Glaubach

## MEMBER ON FACULTY

Mrs. Erica H. Gorecka-Egan

Lambda Tau is the honorary fraternity of the PIONEER. Formed in 1935 to afford recognition to staff members who have served in an editorial capacity for at least ten consecutive issues, the organization has flourished ever since. Lambda Tau parties have become famous and serve as a convenient outlet for the surplus energy of Lambda Tau members and their friends.

## HONORARY MEMBERS

Professor William S. Lynch  
 Professor Norman L. Towle



## GLEE CLUB

Under the leadership of Richard Braun, who took the baton from Professor Harold Lancour after he left for the armed forces last summer, the Glee Club retained its membership at unprecedented heights. The club was of course very sorry to lose such a capable maestro but through the spirited cajoling of Dick has managed to continue its historic career. The same situation has confronted the Glee Club that has been the pet disturbance of the other clubs and societies: the pressure of war-time schedules and the general increase in work.

Despite all these hindrances the club started the year with a huge success. The first performance was given with the Dramatic Club's first presentation, "Squaring the Circle," and Andrea Ericson, a real find as far as coloraturas is concerned, gave a fine solo performance of Silent Night. The audience showed a high tinge of amazement at this demonstration of vocal ability, but has since learned that the freshman members of the club have some unexpected abilities other than choral work.

The second appearance of the Glee Club occurred on Founder's Day, February 11, in the lecture hall, in the Foundation Building. It was the first public presentation of the Club to the Alumni who gather annually for the Founder's Day celebration. The members of the club were warmly accepted and congratulated by the audience.

On March 16, the Glee Club again performed in coordination with the Dramatic Club. With the aforementioned situation again rearing its head in our path and despite that fact again, we managed to show the club's abilities and merit.

## DANCE CLUB

Every Thursday afternoon there can be heard emanating from the gilded caverns below the strains of beautiful music. The melodies fill every nook in the Foundation Building. Fascinated by these sounds, a motley group of students gather in the lunchroom to dance to the tunes of the great Moderns—Miller, Dorsey, Ellington, Goodman and Shaw.

The club was organized in September after the summer recess. The officers elected at that time were: Thelma Sitzler, President; Morris Zelenetz, Vice-President; and Charlotte Barber, Secretary-Treasurer.

During the year the organization ran the successful Thanksgiving Barn Dance, where many Cooper Students became acquainted with each other for the first time. The Club hopes to be able to continue its work of providing relaxation for the overworked student.

## DEBATING SOCIETY

The Debating Society was organized when, in '41, West Point challenged us. Four students were found to comprise the team. Under the expert supervision of Dr. Churchill, these four met West Point on a crisp November afternoon. We lost! However, upon that day one of Cooper's most interesting activities had its official birth. The interest engendered by the West Point debate was responsible for the very active season that followed. The neophytic Cooper team met and defeated Columbia, Stevens, City College, Pratt, Brooklyn Polytech and Brooklyn College. The team had the consistent support of a large and enthusiastic audience. Some measure of coercion had to be applied by Dr. Churchill to supply the latter.

The second season found the Cooper team able to obtain only a few decision debates with Metropolitan colleges, the reason being that the impressive record established by the team frightened our erstwhile opponents. However, an interesting radio debate was held with Columbia and panel discussions with Brooklyn College and Pratt.

The activities of the Debating Society have sharply fallen off this season, the curtailment being due to the increasing pressure of school work. The members of the Debating Society have probably been one of the most enthusiastic extra-curricular groups at Cooper Union. Dr. Churchill has said that the Debating Society's a natural as far as Cooper Union is concerned.





## NIGHT ENGINEERING JUNE 1944

Alex Balansky, Bernard Barrett, Harold Berkowitz, Harold Chorney, Emil Cimler, Frederick Drecksler, John Dooner, James Doyle, Nathaniel Elkind, Henry Flar, Ernst Frei, Peter Heere, Richard Hughes, George Lieske, Joseph Lopez, Irwin Konigsberg, William Kostiw, Sigmund Kovalski, Philip Krohn, Leo Mandelbaum, Anthony Majlinger, Edward McCracken, Berthold Meyer, William Meyn, Irving Millman, George Morrow, James Mulligan, James Nestor, William Pesce, Anthony Peters, Bertil Peterson, Reino Rahikka, Harold Rosenblum, Fred Roth, Edward Schaefer, Joseph Screnock, James Shillito, Robert Stewart, Werner Tundermann, Albert Watrous, David Young.





## DAY ENGINEERING SEPT. 1943

Edward Blum, Richard Boyer, Abraham Cooper, Daniel Frankl, John Herrera, Julian Hirsch, Daniel Kaufman, David Kreines, Walter Lapple, Byron Ledgerwood, Harold Levenstein, Leonard Miaskoff, Solomon Musikant, Marvin Panzer, Clifford Petersen, Mathew Platt, John Rothschild, Martin Rubinstein, Theodore Schachat, Robert Sahagian, Timothy Trott, Leon Weinberger, Gerald Weiss, Julius Wolff, Michael Yanowitch.